

Appendix: 2.4G WIFI

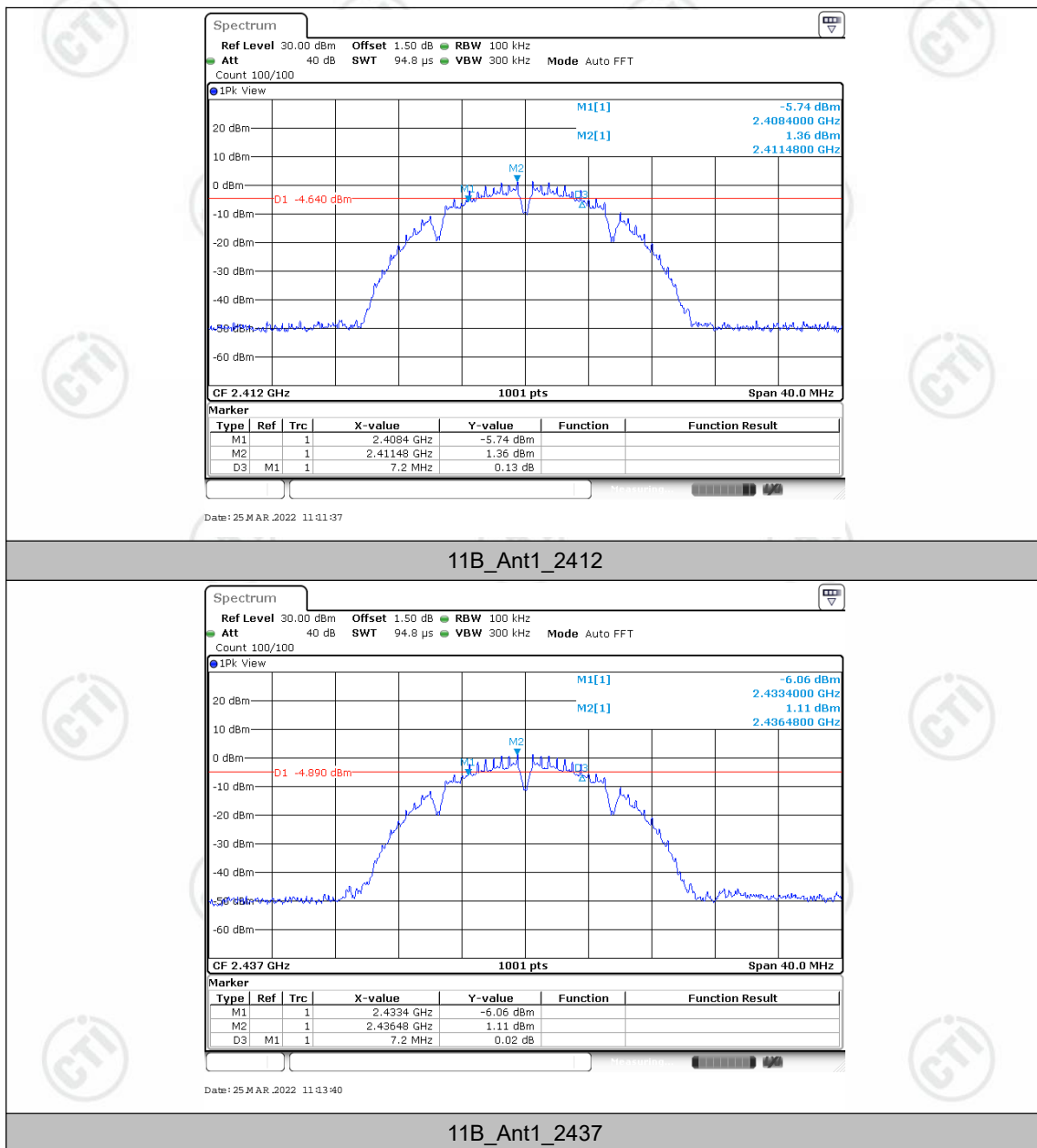
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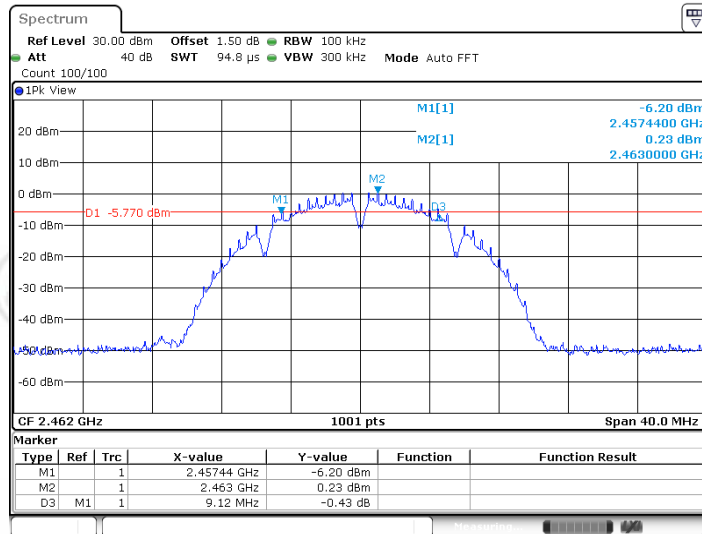
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Appendix A: DTS Bandwidth**Test Result**

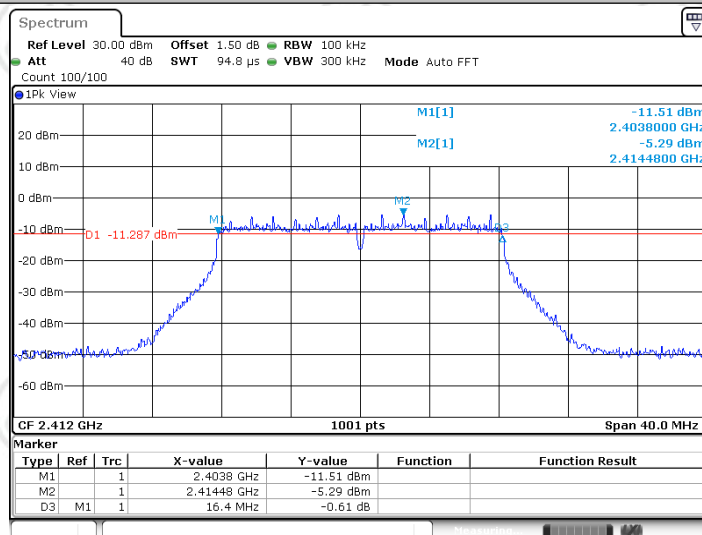
| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B | Ant1 | 2412 | 7.200 | 2408.400 | 2415.600 | 0.5 | PASS |
| | | 2437 | 7.200 | 2433.400 | 2440.600 | 0.5 | PASS |
| | | 2462 | 9.120 | 2457.440 | 2466.560 | 0.5 | PASS |
| 11G | Ant1 | 2412 | 16.400 | 2403.800 | 2420.200 | 0.5 | PASS |
| | | 2437 | 16.400 | 2428.800 | 2445.200 | 0.5 | PASS |
| | | 2462 | 16.400 | 2453.800 | 2470.200 | 0.5 | PASS |
| 11N20SISO | Ant1 | 2412 | 17.600 | 2403.200 | 2420.800 | 0.5 | PASS |
| | | 2437 | 17.680 | 2428.160 | 2445.840 | 0.5 | PASS |
| | | 2462 | 17.640 | 2453.160 | 2470.800 | 0.5 | PASS |
| 11N40SISO | Ant1 | 2422 | 35.760 | 2404.320 | 2440.080 | 0.5 | PASS |
| | | 2437 | 36.240 | 2419.000 | 2455.240 | 0.5 | PASS |
| | | 2452 | 36.000 | 2434.000 | 2470.000 | 0.5 | PASS |

Test Graphs

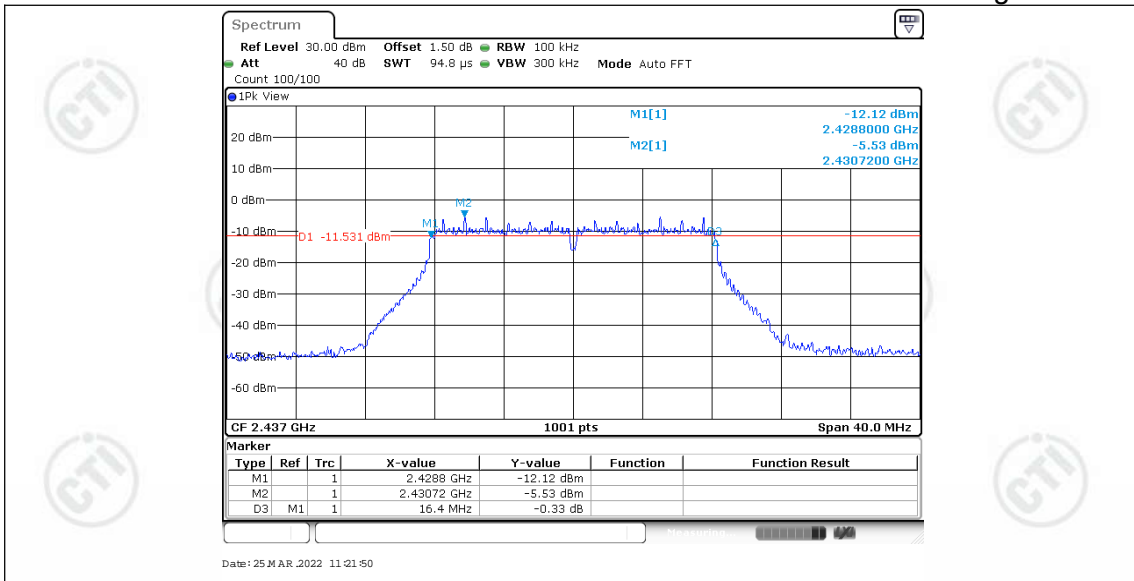




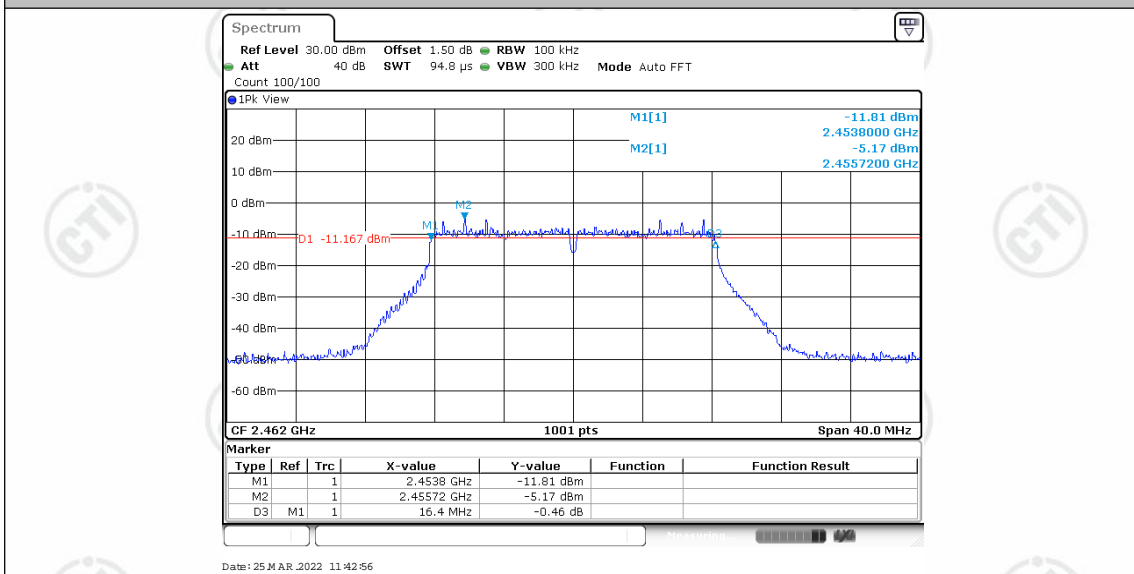
11B_Ant1_2462



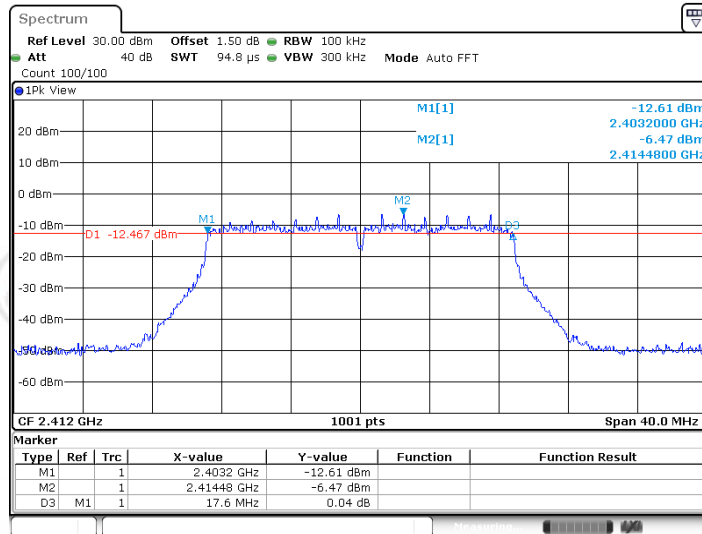
11G_Ant1_2412



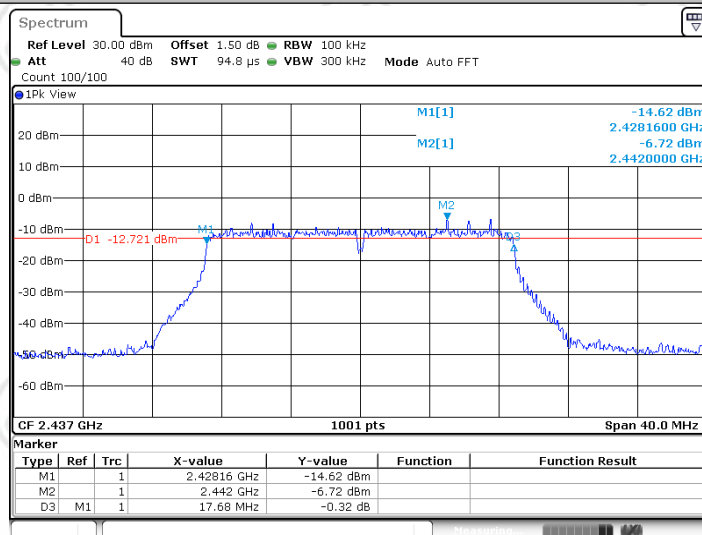
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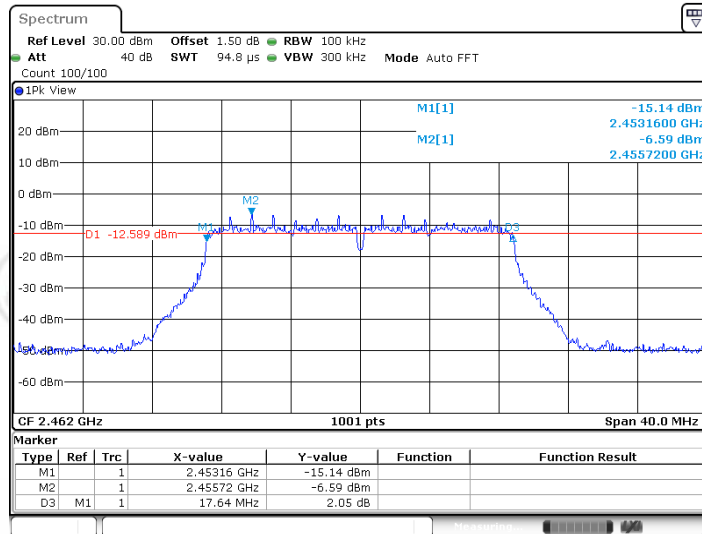
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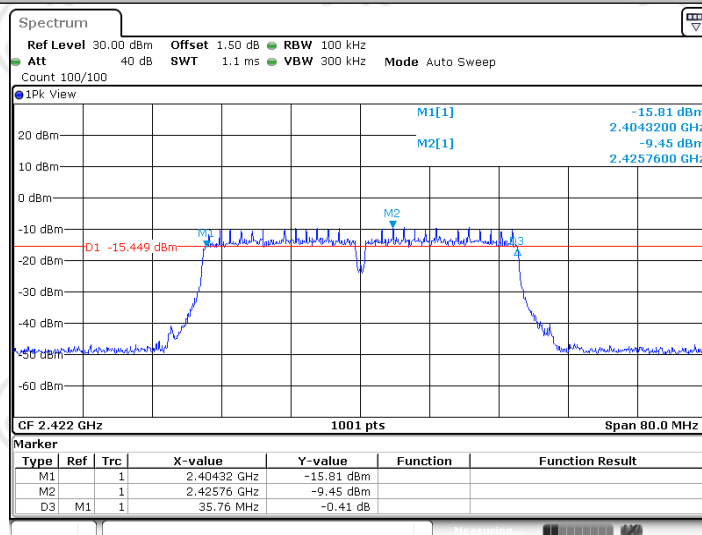


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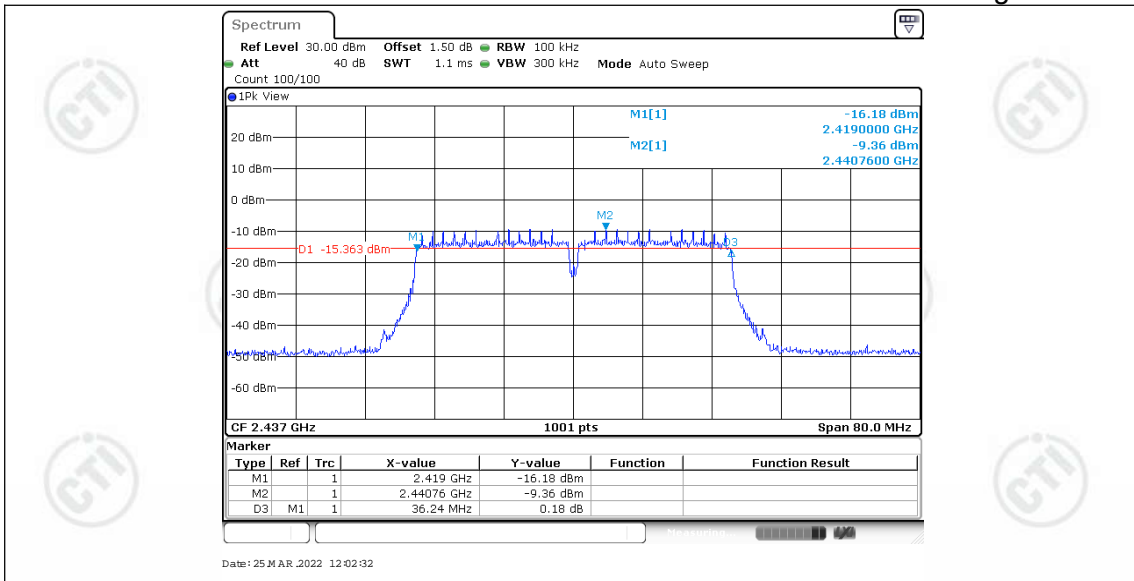
Date: 25 MAR. 2022 11:58:12

11N20SISO_Ant1_2462

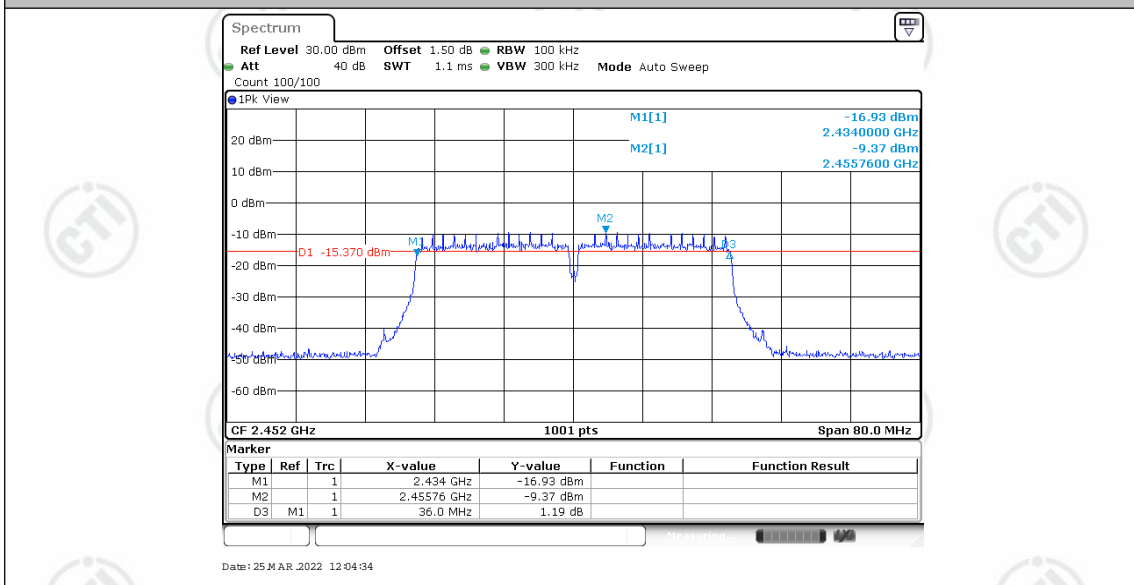


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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



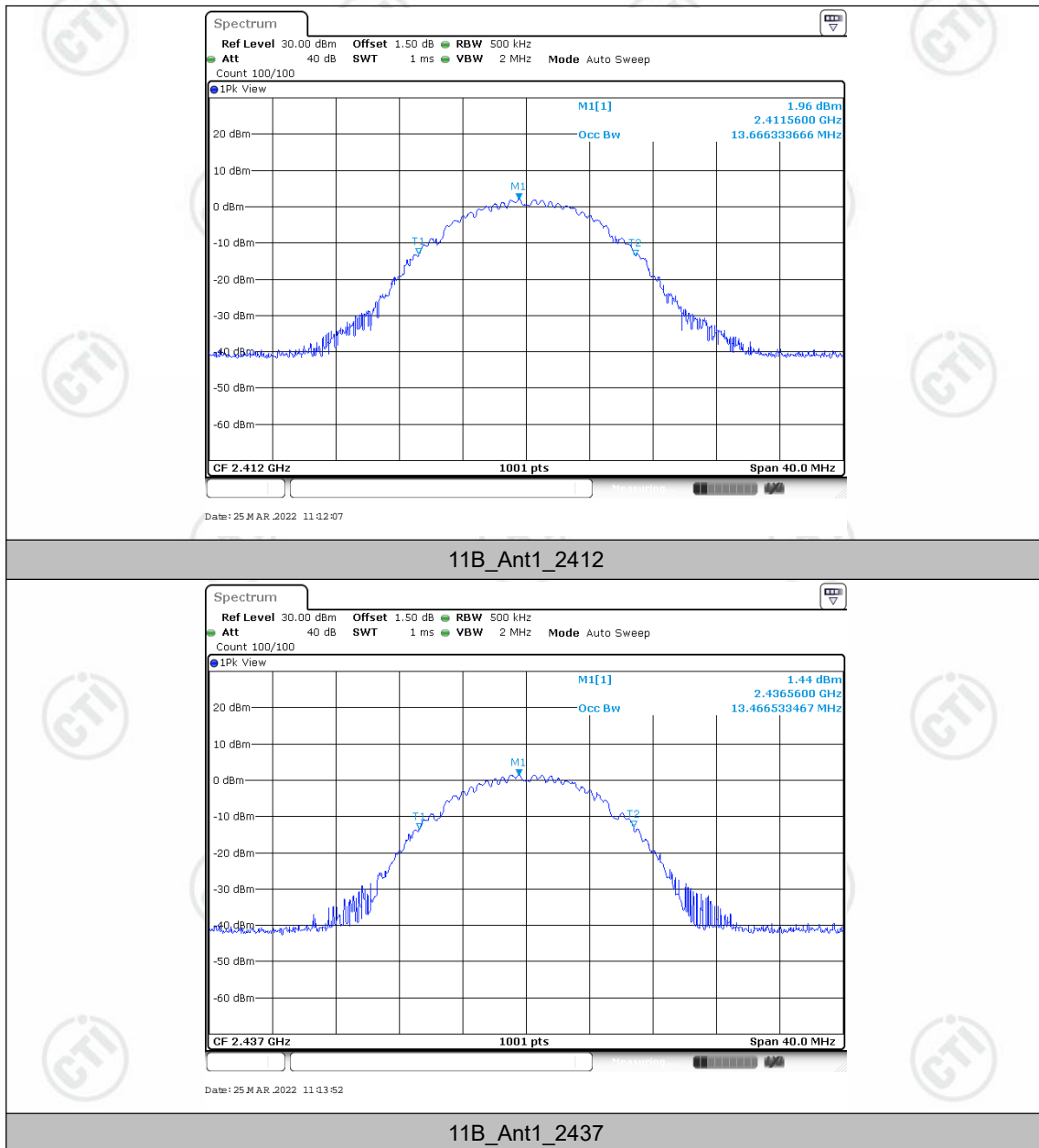
11N40SISO_Ant1_2452

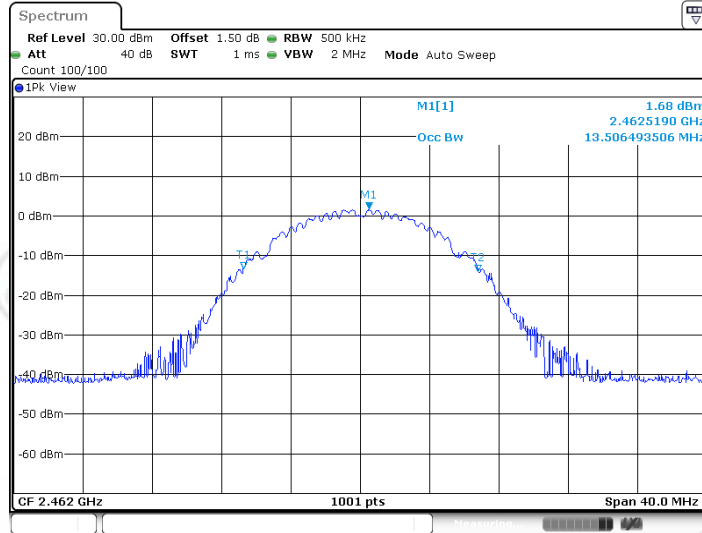
Appendix B: Occupied Channel Bandwidth

Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| 11B | Ant1 | 2412 | 13.666 | 2405.207 | 2418.873 | --- | PASS |
| | | 2437 | 13.467 | 2430.287 | 2443.753 | --- | PASS |
| | | 2462 | 13.506 | 2455.287 | 2468.793 | --- | PASS |
| 11G | Ant1 | 2412 | 17.502 | 2403.369 | 2420.871 | --- | PASS |
| | | 2437 | 17.582 | 2428.249 | 2445.831 | --- | PASS |
| | | 2462 | 17.463 | 2453.329 | 2470.791 | --- | PASS |
| 11N20SISO | Ant1 | 2412 | 18.342 | 2402.849 | 2421.191 | --- | PASS |
| | | 2437 | 18.422 | 2427.809 | 2446.231 | --- | PASS |
| | | 2462 | 18.382 | 2452.809 | 2471.191 | --- | PASS |
| 11N40SISO | Ant1 | 2422 | 36.843 | 2403.618 | 2440.462 | --- | PASS |
| | | 2437 | 36.763 | 2418.698 | 2455.462 | --- | PASS |
| | | 2452 | 36.683 | 2433.698 | 2470.382 | --- | PASS |

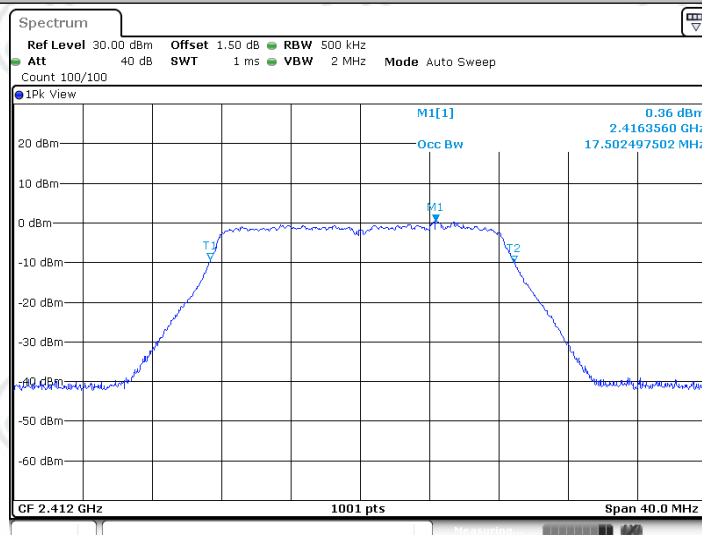
Test Graphs





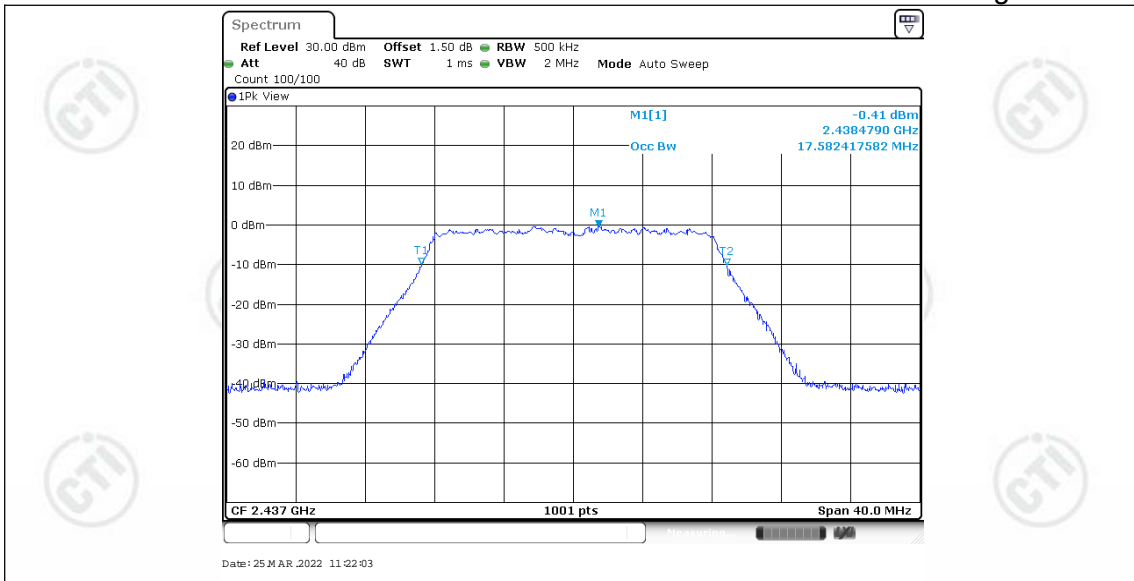
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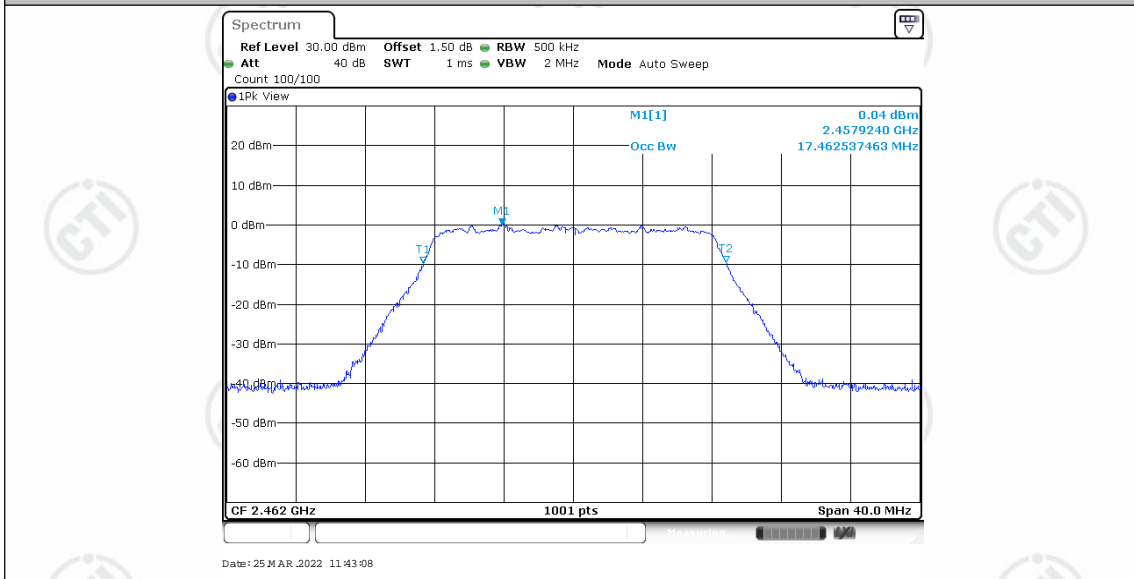


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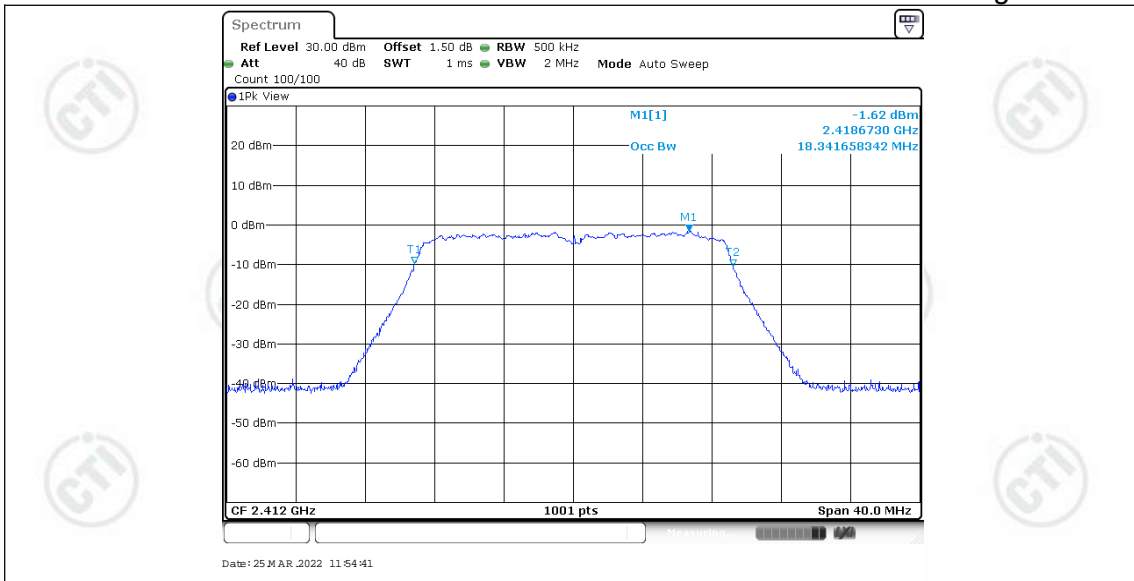
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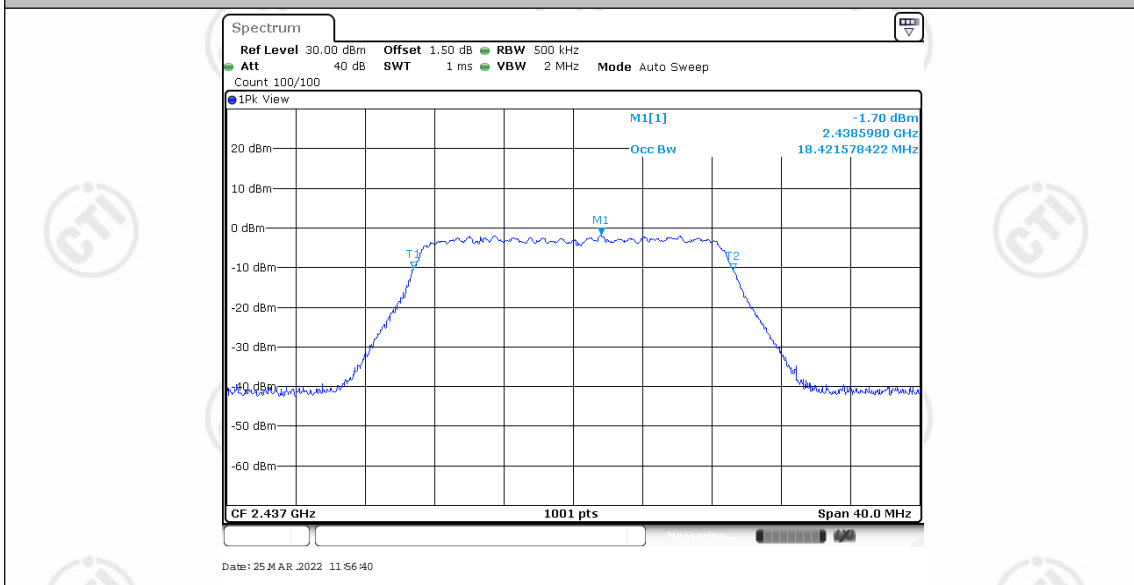
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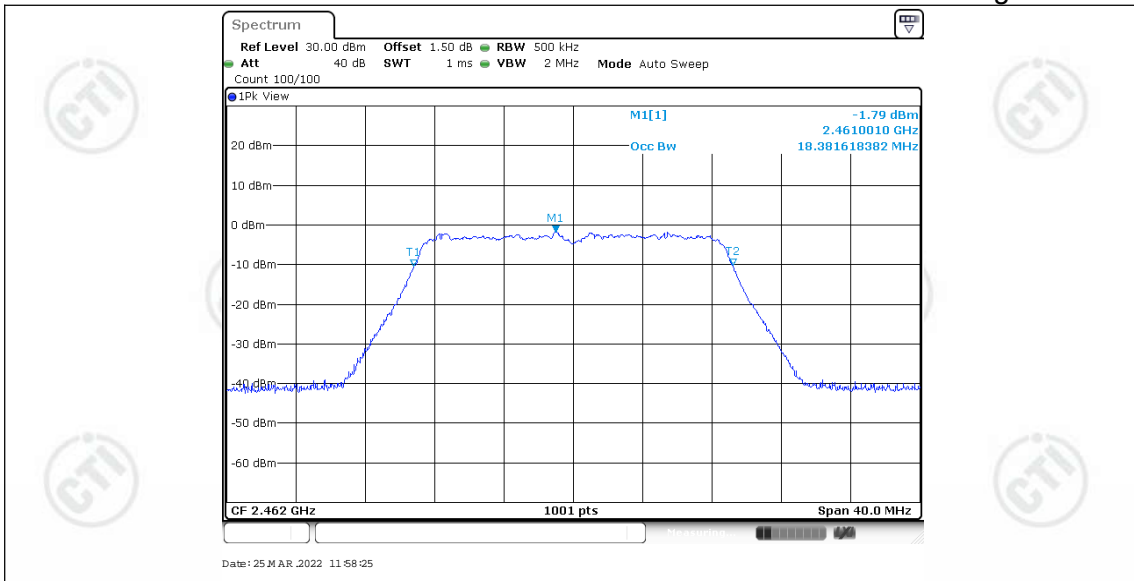
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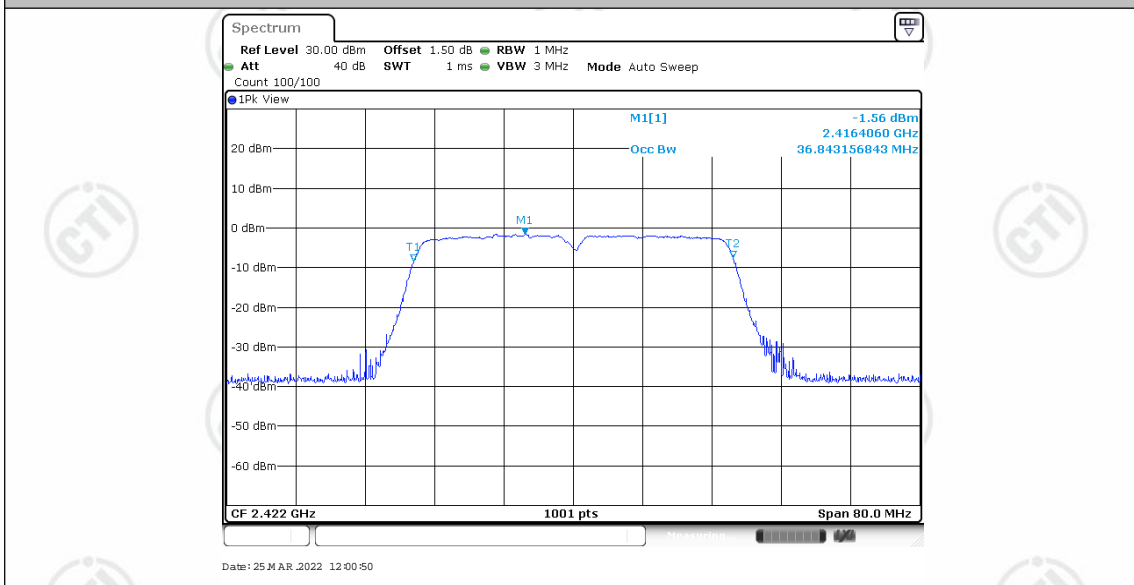
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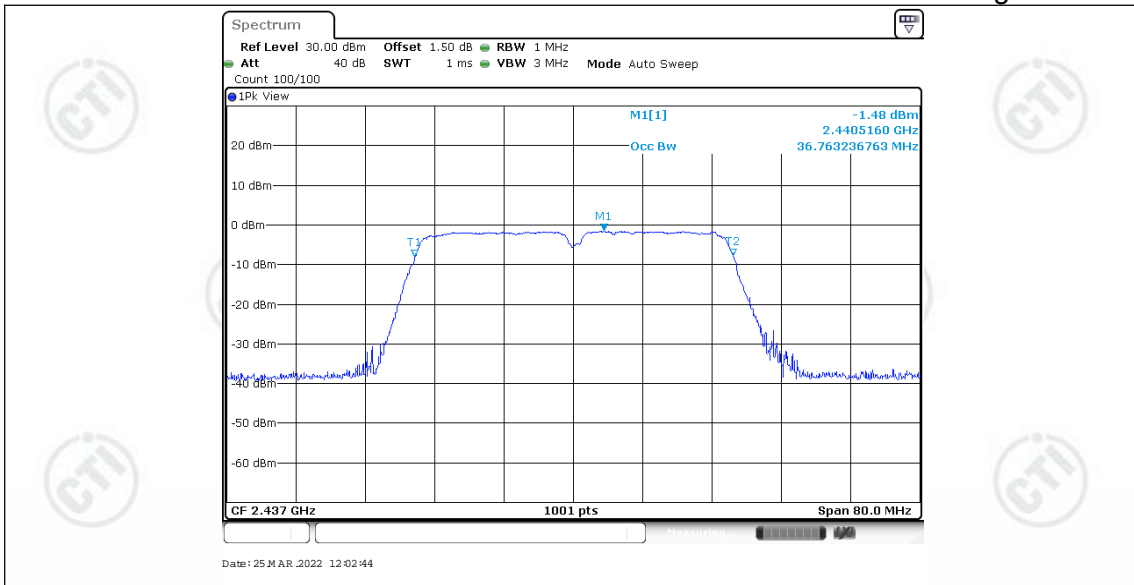
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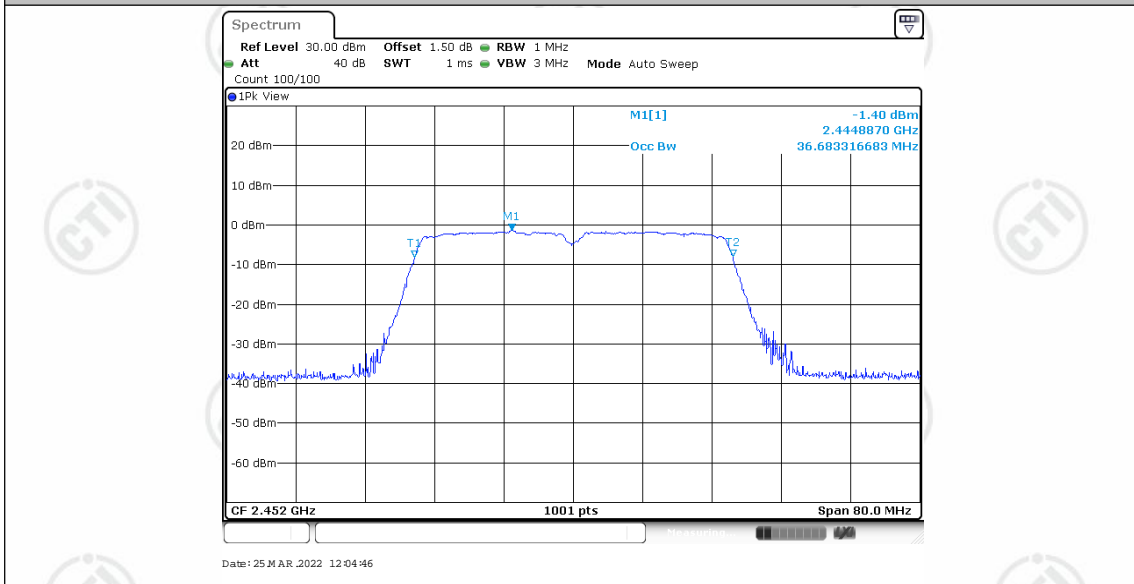
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

Appendix C: Maximum conducted output power**Test Result**

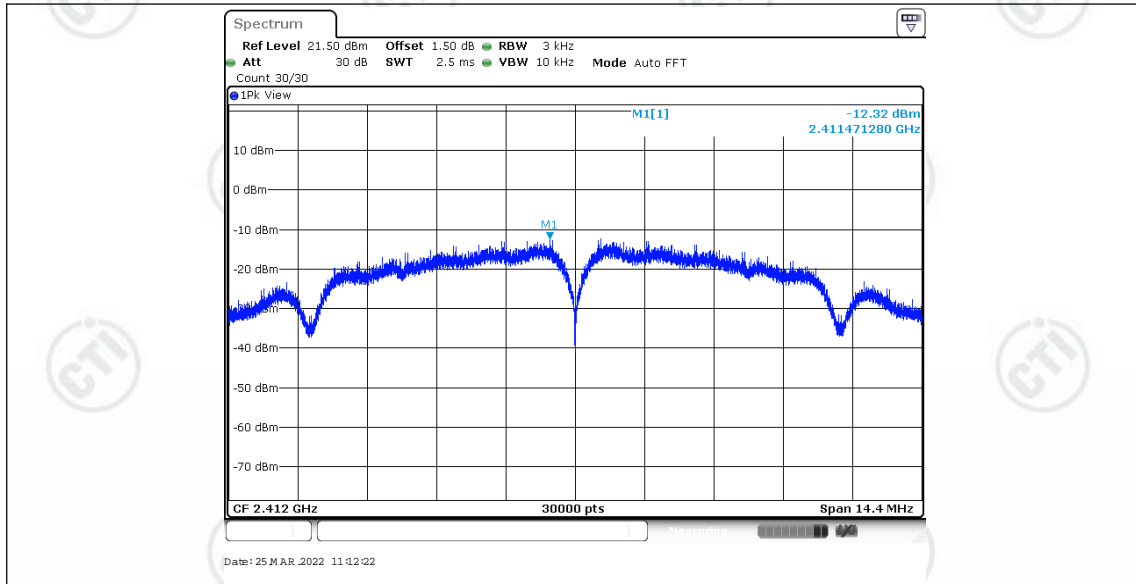
| TestMode | Antenna | Channel | Power[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|------------|------------|---------|
| 11B | Ant1 | 2412 | 11.83 | <=30 | PASS |
| | | 2437 | 11.69 | <=30 | PASS |
| | | 2462 | 11.91 | <=30 | PASS |
| 11G | Ant1 | 2412 | 13.82 | <=30 | PASS |
| | | 2437 | 13.58 | <=30 | PASS |
| | | 2462 | 13.77 | <=30 | PASS |
| 11N20SISO | Ant1 | 2412 | 12.69 | <=30 | PASS |
| | | 2437 | 12.44 | <=30 | PASS |
| | | 2462 | 12.44 | <=30 | PASS |
| 11N40SISO | Ant1 | 2422 | 12.32 | <=30 | PASS |
| | | 2437 | 12.55 | <=30 | PASS |
| | | 2452 | 12.49 | <=30 | PASS |

Appendix D: Maximum power spectral density

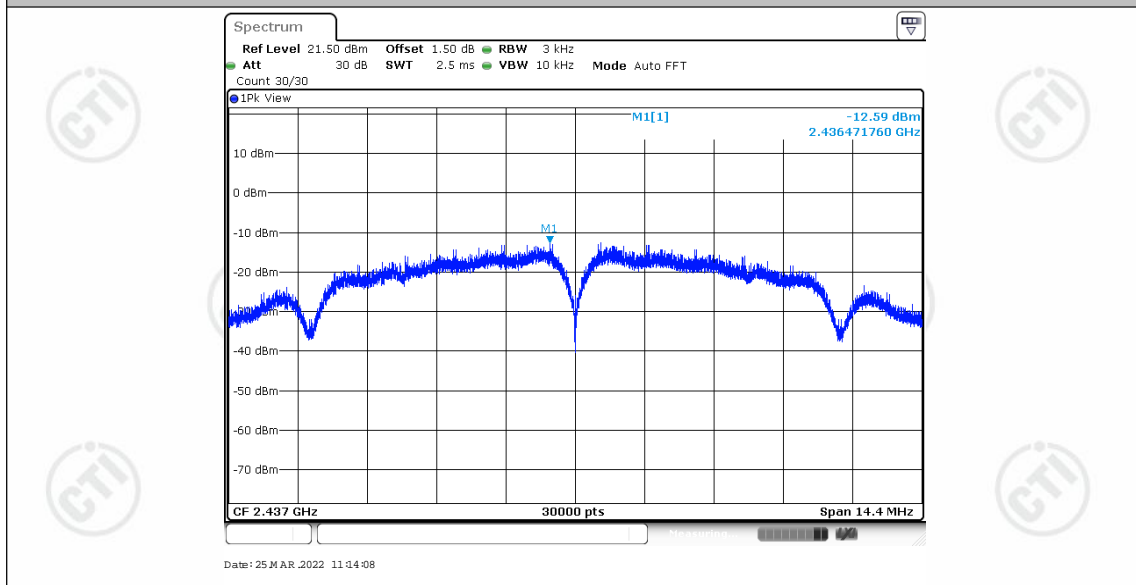
Test Result

| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B | Ant1 | 2412 | -12.32 | <=8 | PASS |
| | | 2437 | -12.59 | <=8 | PASS |
| | | 2462 | -12.77 | <=8 | PASS |
| 11G | Ant1 | 2412 | -19.24 | <=8 | PASS |
| | | 2437 | -19.74 | <=8 | PASS |
| | | 2462 | -19.53 | <=8 | PASS |
| 11N20SISO | Ant1 | 2412 | -19.97 | <=8 | PASS |
| | | 2437 | -20.08 | <=8 | PASS |
| | | 2462 | -20.00 | <=8 | PASS |
| 11N40SISO | Ant1 | 2422 | -23.11 | <=8 | PASS |
| | | 2437 | -24.01 | <=8 | PASS |
| | | 2452 | -23.67 | <=8 | PASS |

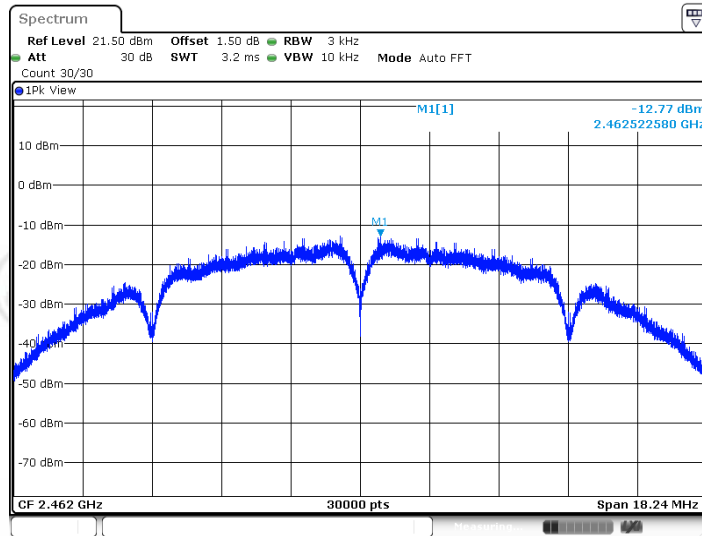
Test Graphs



11B_Ant1_2412

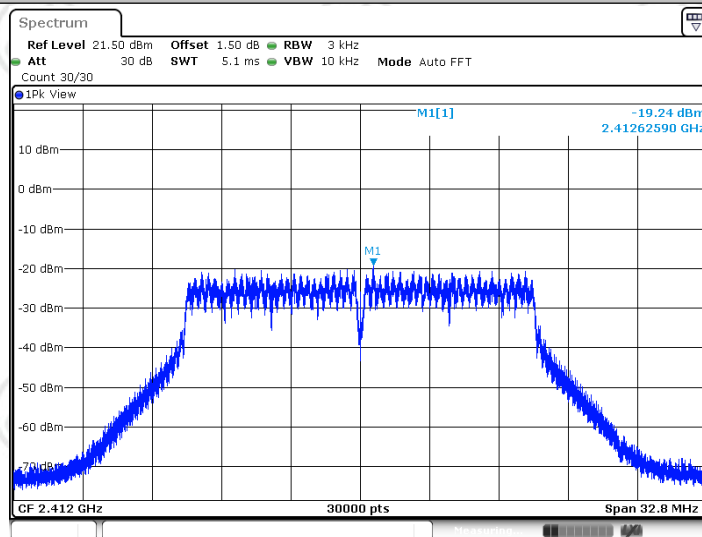


11B_Ant1_2437



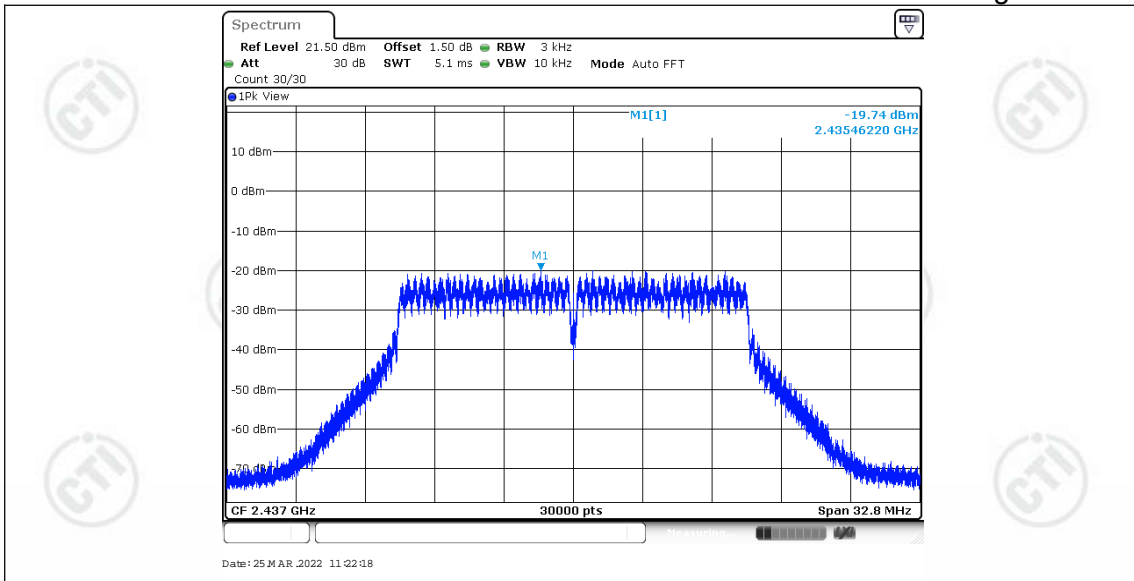
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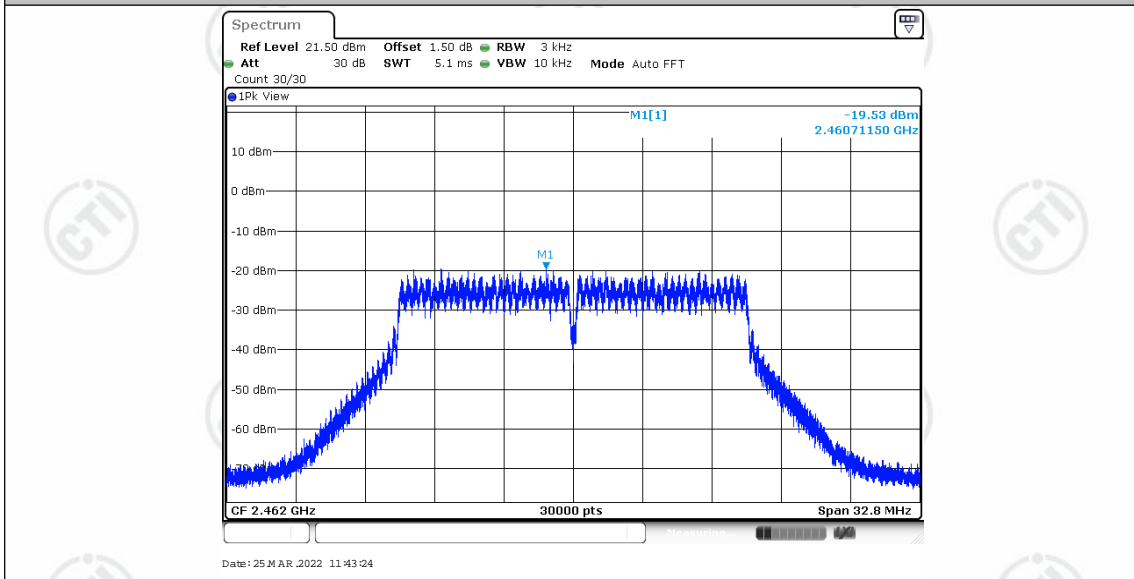


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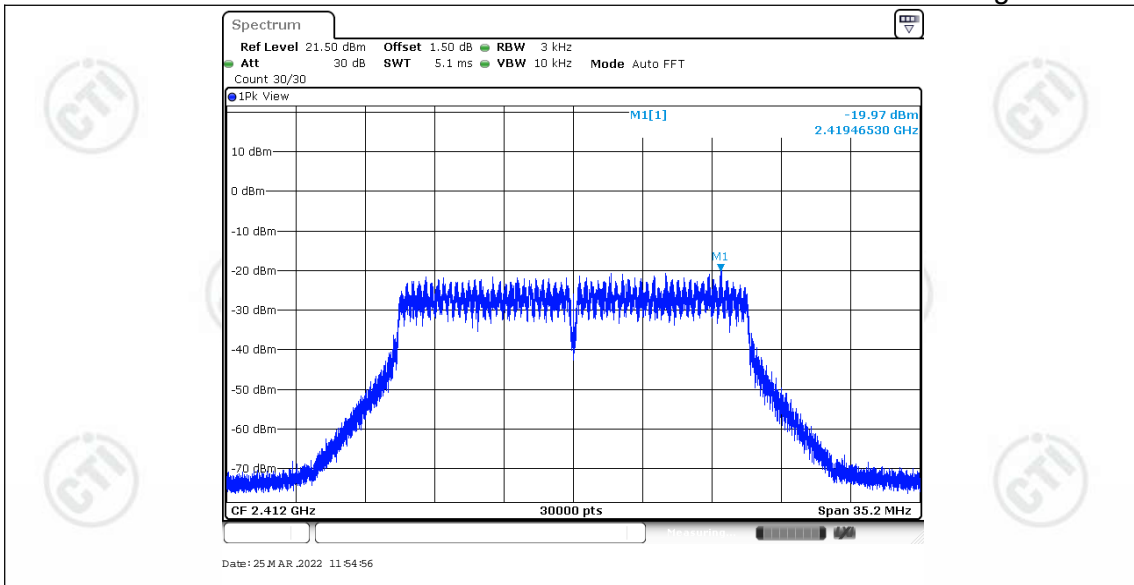
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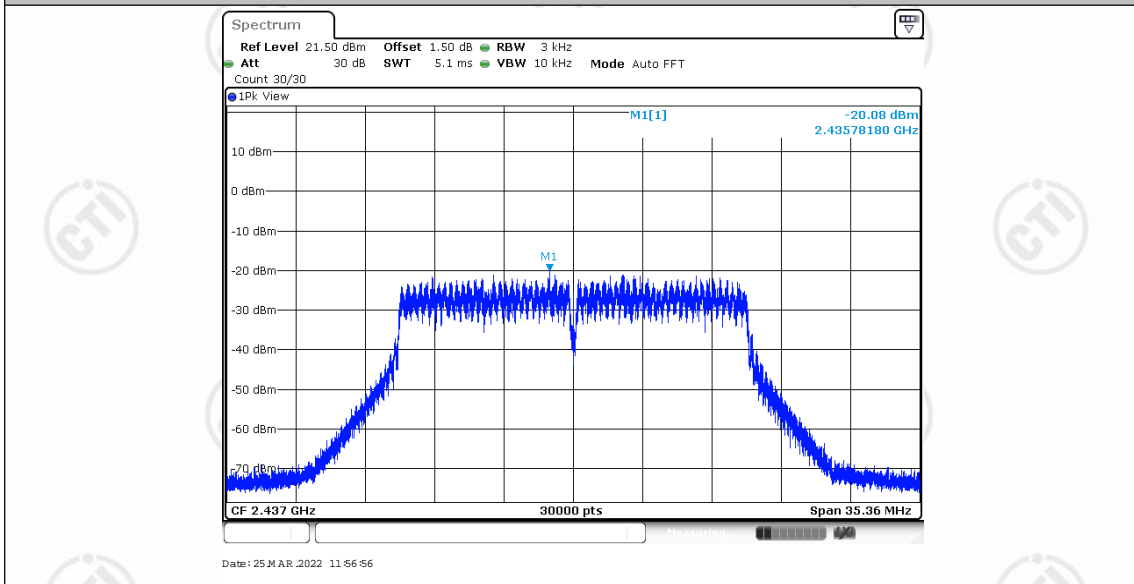
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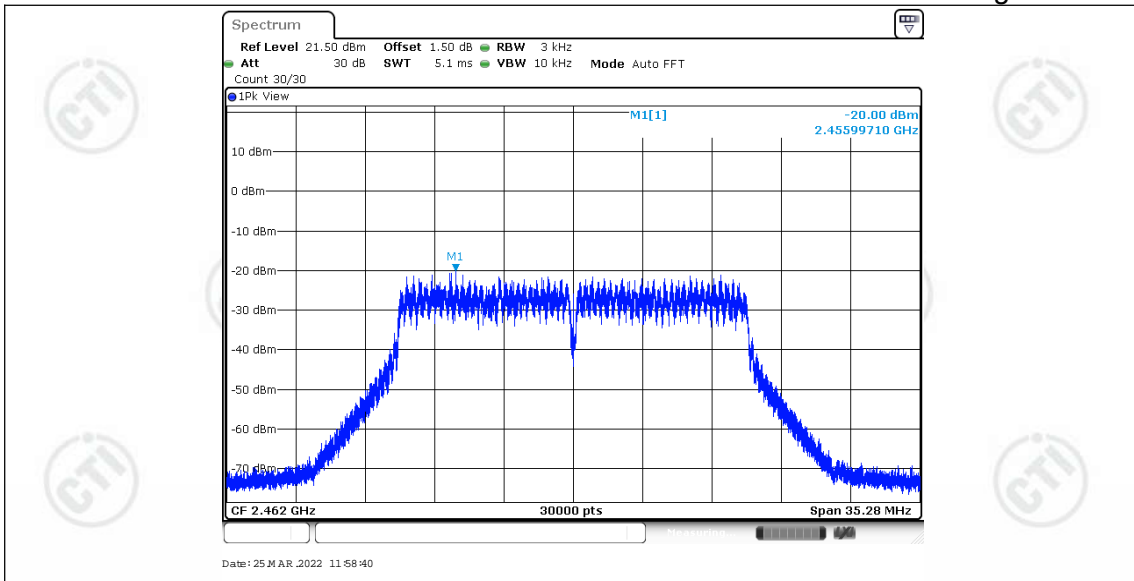
11G_Ant1_2462



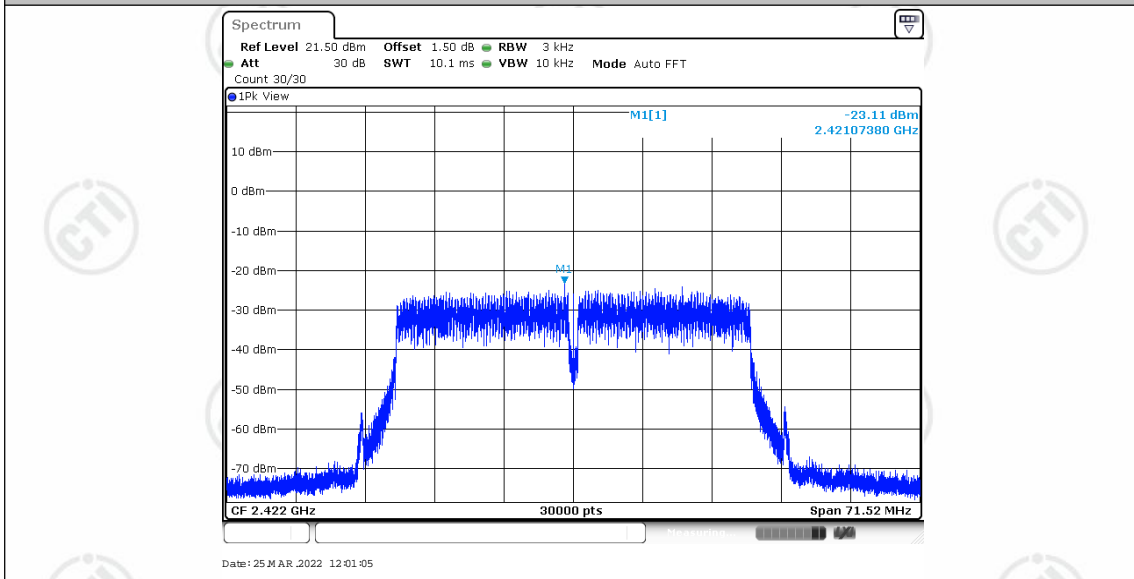
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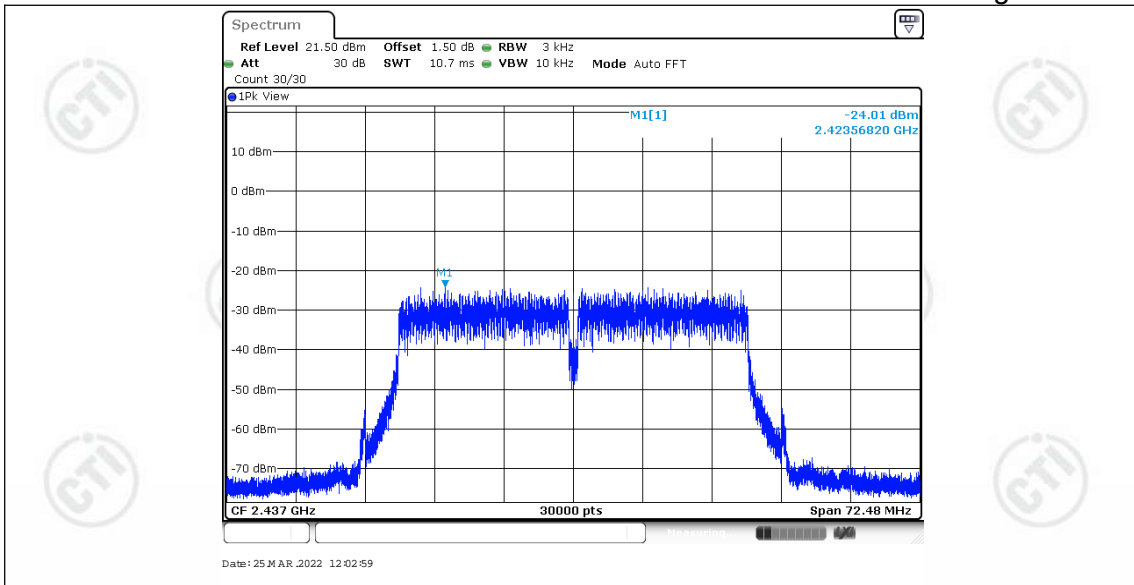
11N20SISO_Ant1_2437



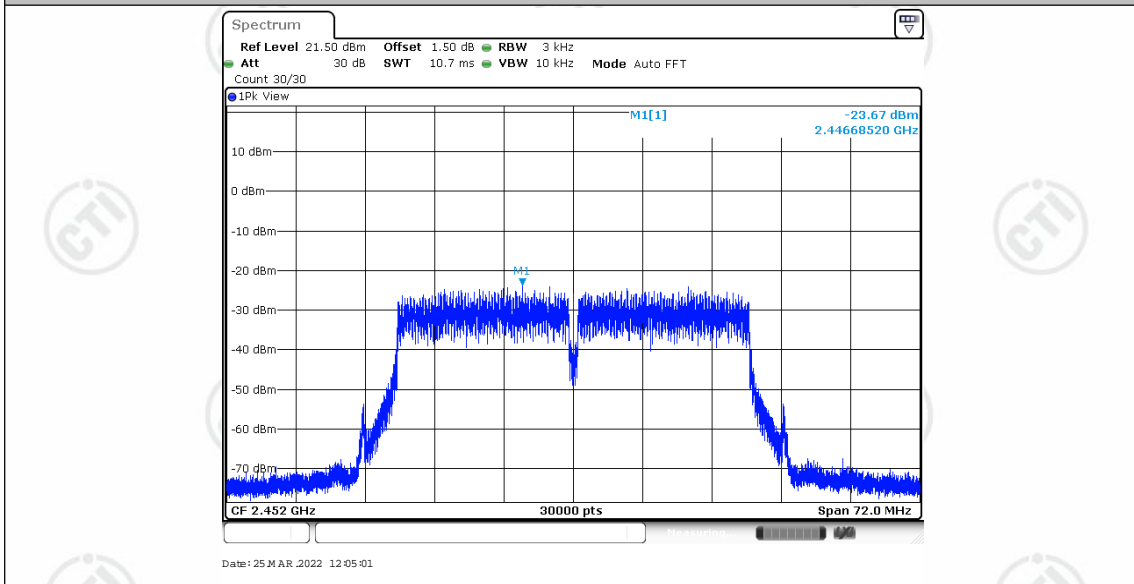
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

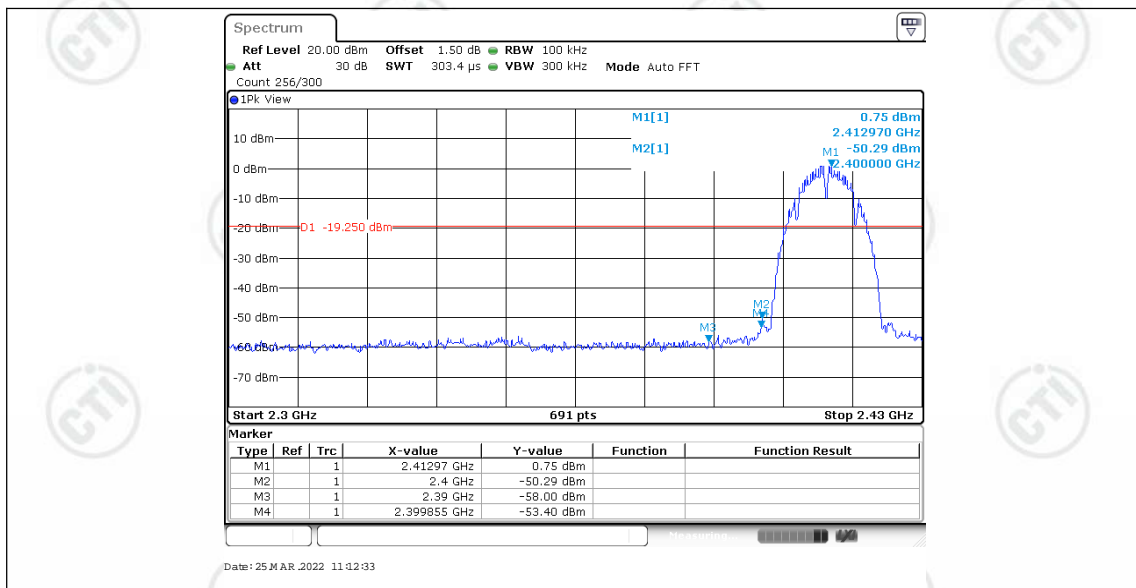


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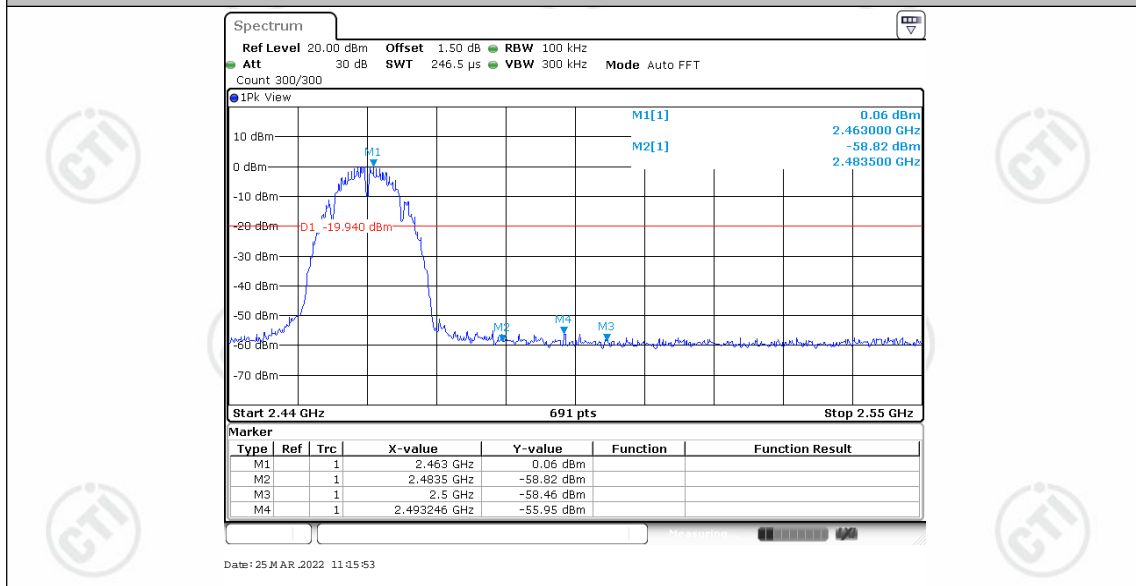
Appendix E: Band edge measurements**Test Result**

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|---------|---------------|-------------|------------|---------|
| 11B | Ant1 | Low | 2412 | 0.75 | -53.4 | <=-19.25 | PASS |
| | | High | 2462 | 0.06 | -55.95 | <=-19.94 | PASS |
| 11G | Ant1 | Low | 2412 | -5.40 | -45.69 | <=-25.4 | PASS |
| | | High | 2462 | -6.52 | -56.14 | <=-26.52 | PASS |
| 11N20SISO | Ant1 | Low | 2412 | -6.28 | -47.58 | <=-26.28 | PASS |
| | | High | 2462 | -6.72 | -56.47 | <=-26.72 | PASS |
| 11N40SISO | Ant1 | Low | 2422 | -9.86 | -47.52 | <=-29.86 | PASS |
| | | High | 2452 | -9.35 | -56.46 | <=-29.35 | PASS |

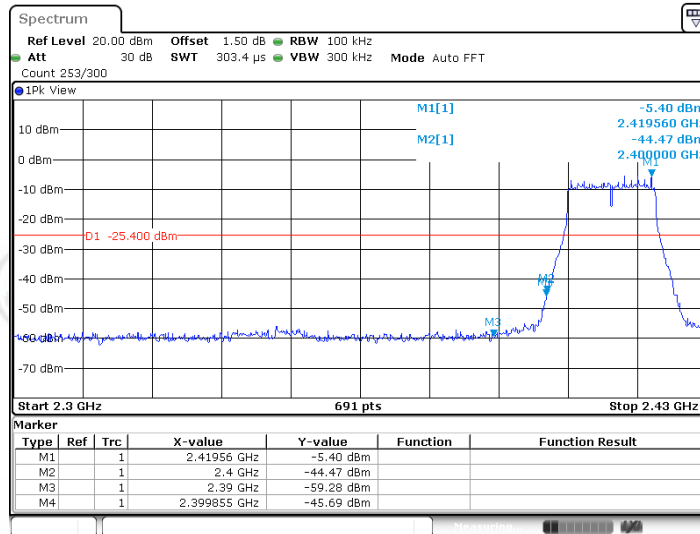
Test Graphs



11B_Ant1_Low_2412

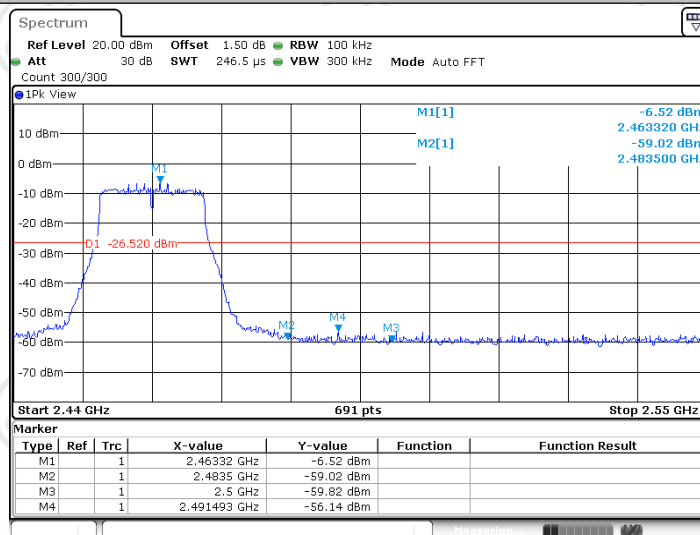


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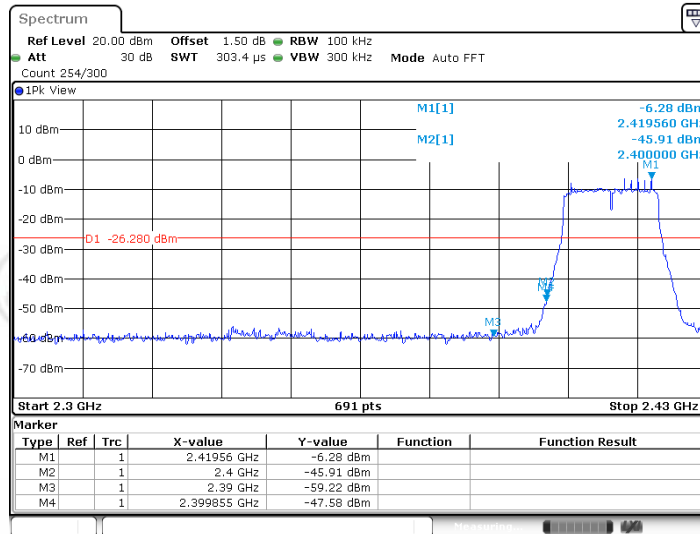
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11G_Ant1_Low_2412



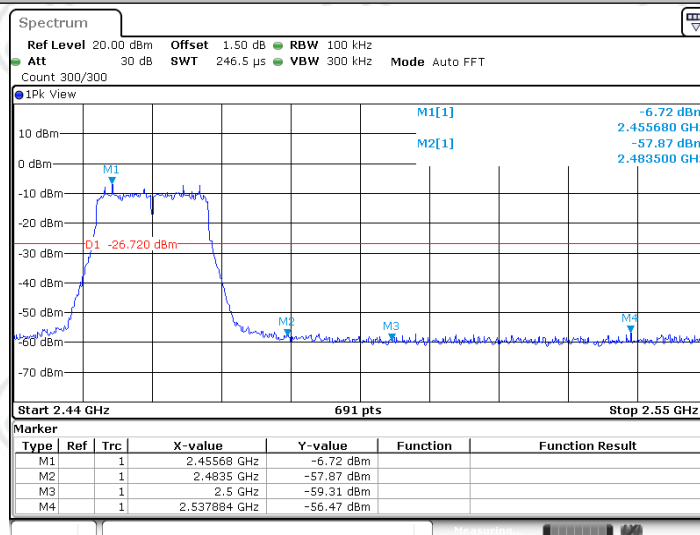
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11G_Ant1_High_2462



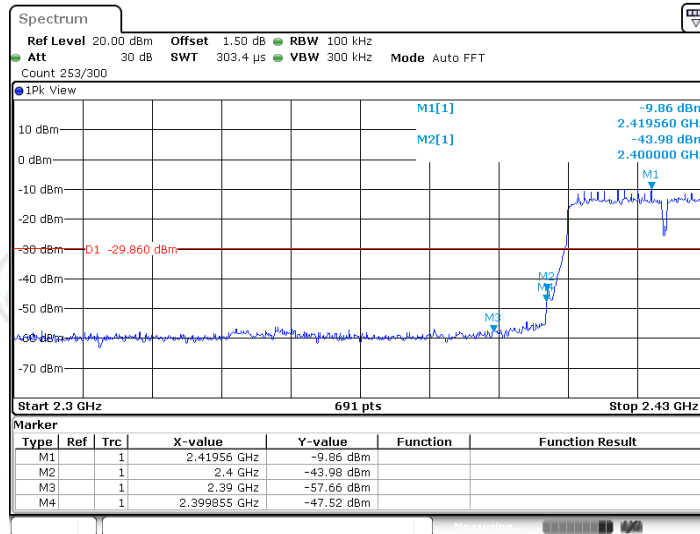
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11N20SISO_Ant1_Low_2412



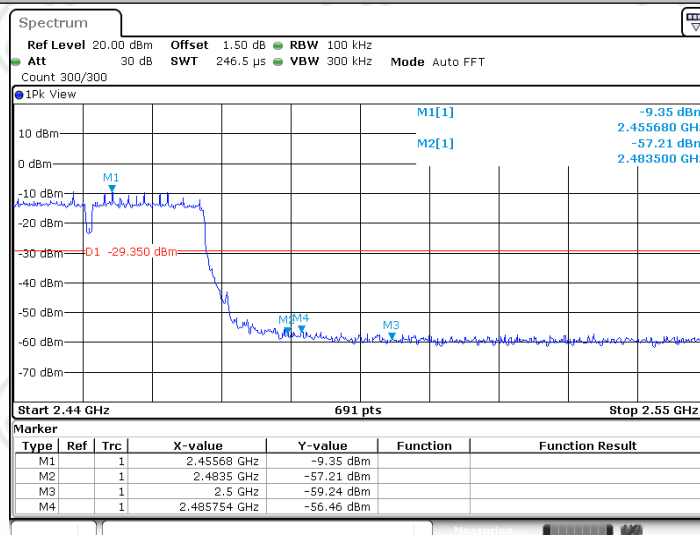
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11N20SISO_Ant1_High_2462



Date: 25 MAR. 2022 12:01:16

11N40SISO_Ant1_Low_2422



Date: 25 MAR. 2022 12:05:12

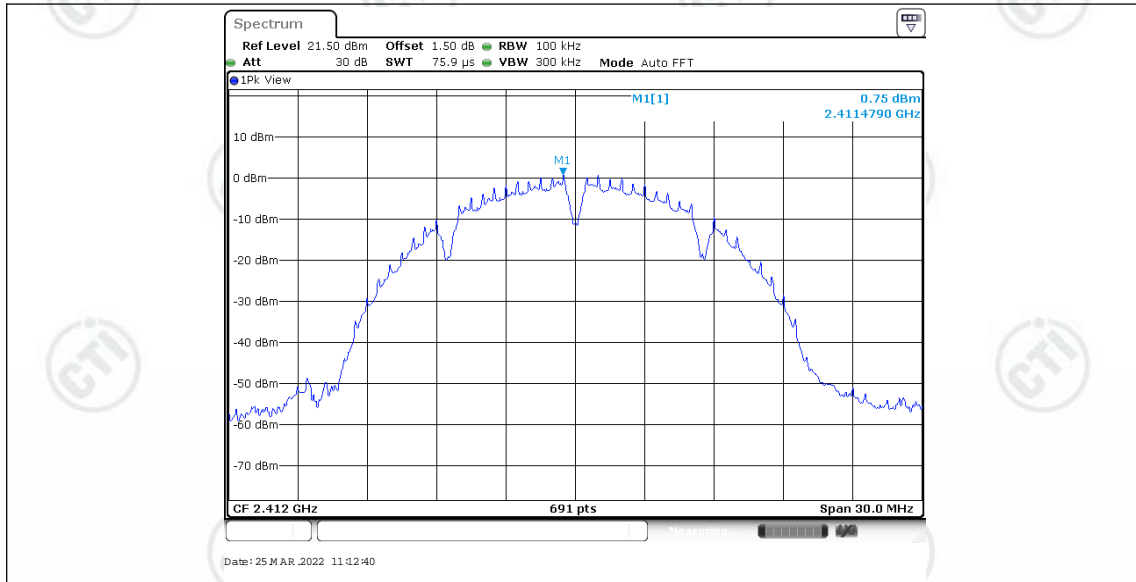
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Appendix F: Conducted Spurious Emission

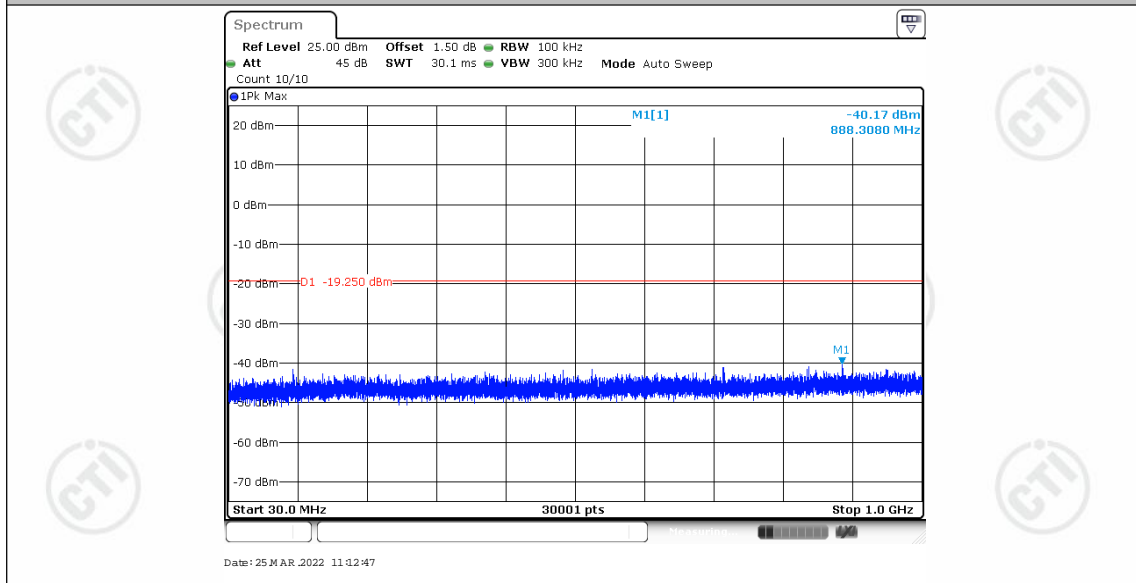
Test Result

| TestMode | Antenna | Channel | FreqRange[Mhz] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|----------------|-------------|------------|---------|
| 11B | Ant1 | 2412 | Reference | 0.75 | --- | PASS |
| | | | 30~1000 | -40.17 | <=-19.25 | PASS |
| | | | 1000~26500 | -55.57 | <=-19.25 | PASS |
| | | 2437 | Reference | 1.00 | --- | PASS |
| | | | 30~1000 | -41.05 | <=-19 | PASS |
| | | | 1000~26500 | -55.01 | <=-19 | PASS |
| | | 2462 | Reference | 0.69 | --- | PASS |
| | | | 30~1000 | -41.06 | <=-19.31 | PASS |
| | | | 1000~26500 | -55.9 | <=-19.31 | PASS |
| 11G | Ant1 | 2412 | Reference | -5.41 | --- | PASS |
| | | | 30~1000 | -40.38 | <=-25.41 | PASS |
| | | | 1000~26500 | -56.01 | <=-25.41 | PASS |
| | | 2437 | Reference | -5.36 | --- | PASS |
| | | | 30~1000 | -41.28 | <=-25.36 | PASS |
| | | | 1000~26500 | -56.15 | <=-25.36 | PASS |
| | | 2462 | Reference | -5.71 | --- | PASS |
| | | | 30~1000 | -40.52 | <=-25.71 | PASS |
| | | | 1000~26500 | -56.02 | <=-25.71 | PASS |
| 11N20SISO | Ant1 | 2412 | Reference | -6.51 | --- | PASS |
| | | | 30~1000 | -40.77 | <=-26.51 | PASS |
| | | | 1000~26500 | -55.72 | <=-26.51 | PASS |
| | | 2437 | Reference | -6.52 | --- | PASS |
| | | | 30~1000 | -40.95 | <=-26.52 | PASS |
| | | | 1000~26500 | -54.15 | <=-26.52 | PASS |
| | | 2462 | Reference | -6.50 | --- | PASS |
| | | | 30~1000 | -40.58 | <=-26.5 | PASS |
| | | | 1000~26500 | -56.09 | <=-26.5 | PASS |
| 11N40SISO | Ant1 | 2422 | Reference | -9.87 | --- | PASS |
| | | | 30~1000 | -40.77 | <=-29.87 | PASS |
| | | | 1000~26500 | -55.48 | <=-29.87 | PASS |
| | | 2437 | Reference | -9.83 | --- | PASS |
| | | | 30~1000 | -40.69 | <=-29.83 | PASS |
| | | | 1000~26500 | -55.51 | <=-29.83 | PASS |
| | | 2452 | Reference | -9.57 | --- | PASS |
| | | | 30~1000 | -40.74 | <=-29.57 | PASS |
| | | | 1000~26500 | -55.86 | <=-29.57 | PASS |

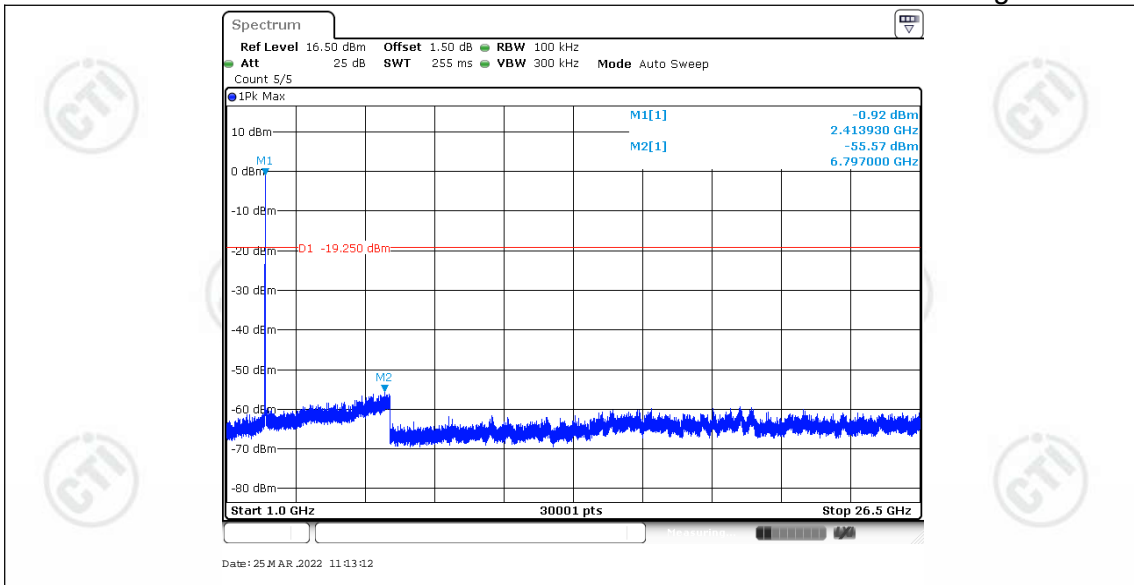
Test Graphs



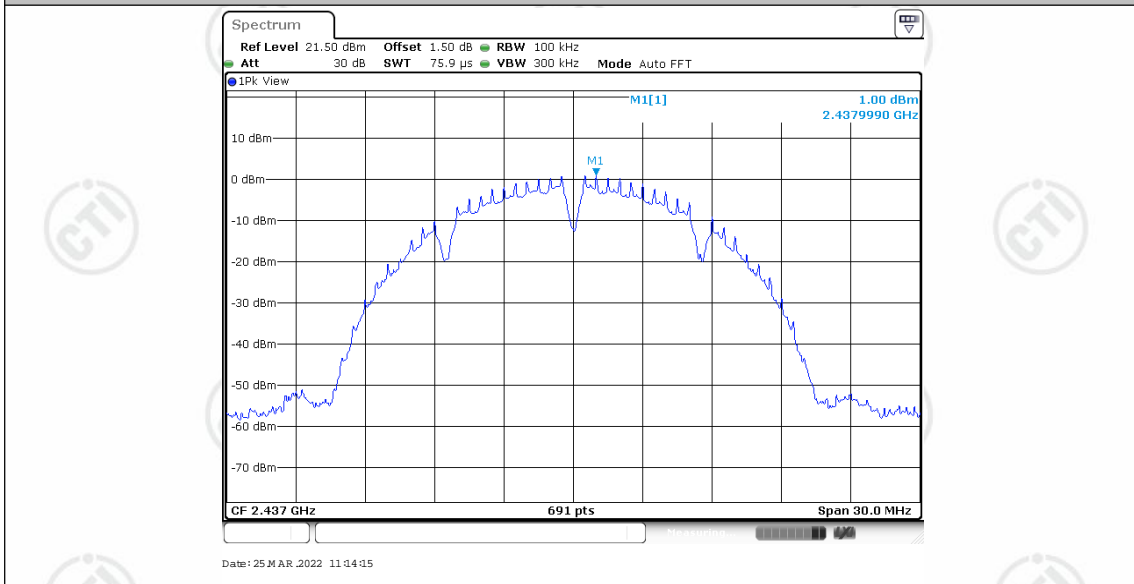
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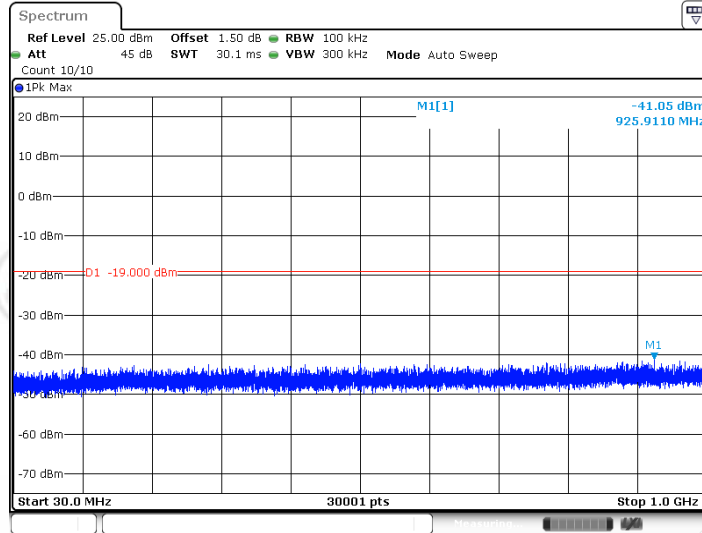
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11B_Ant1_2412_1000~26500

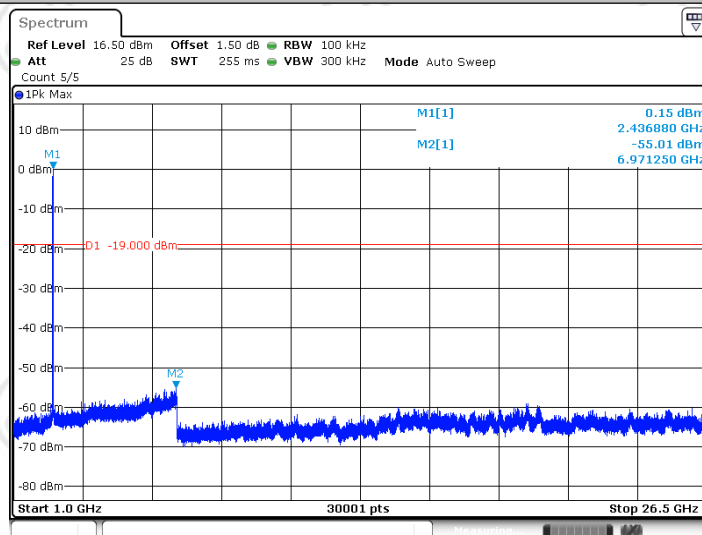


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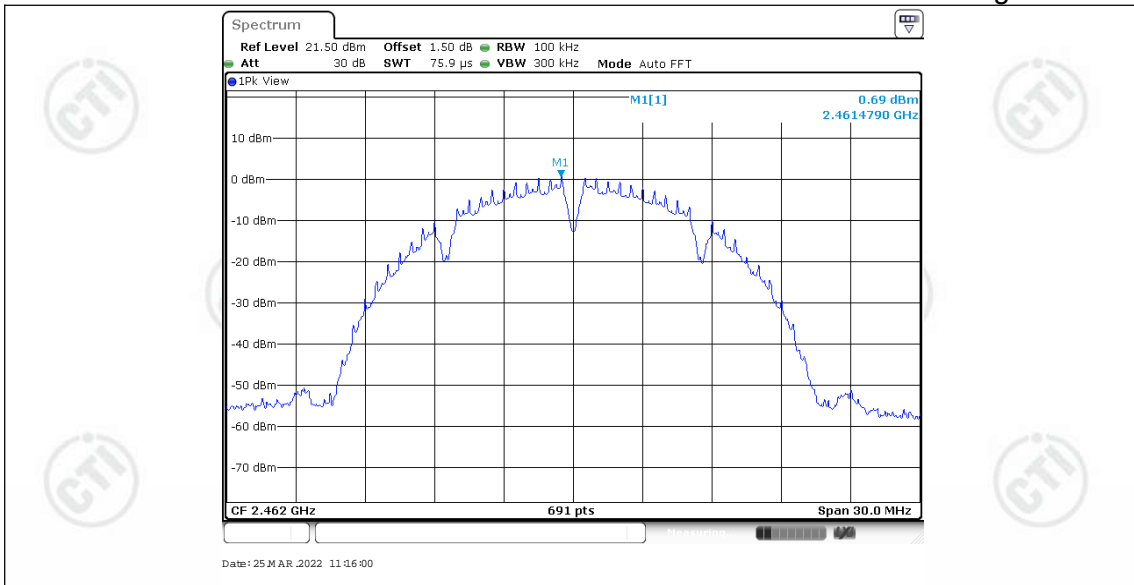
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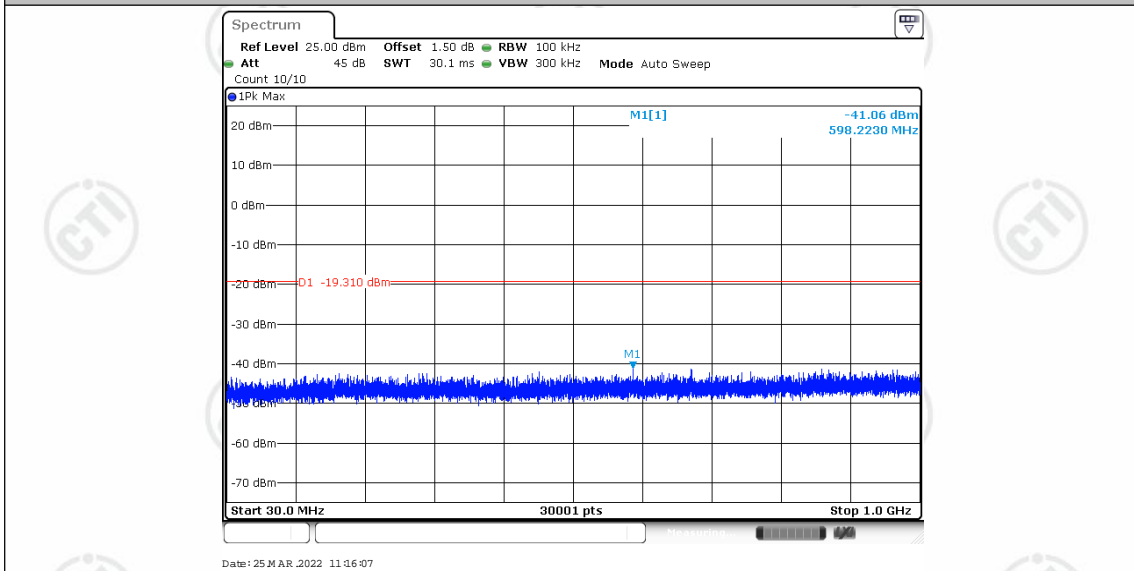


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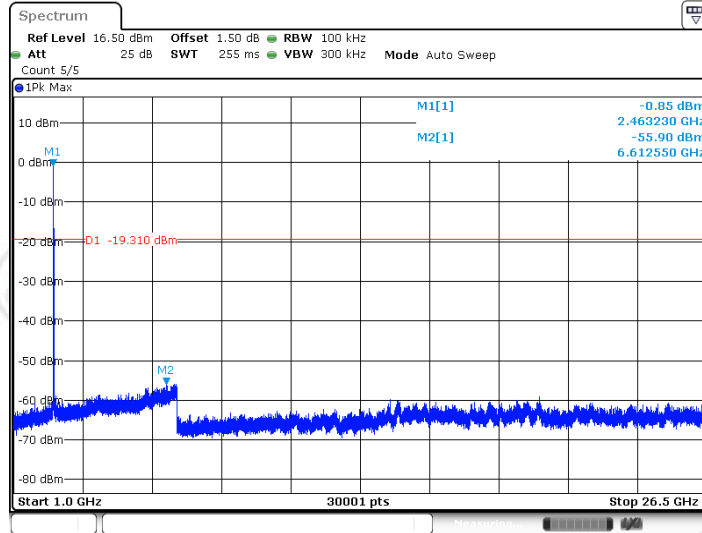
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

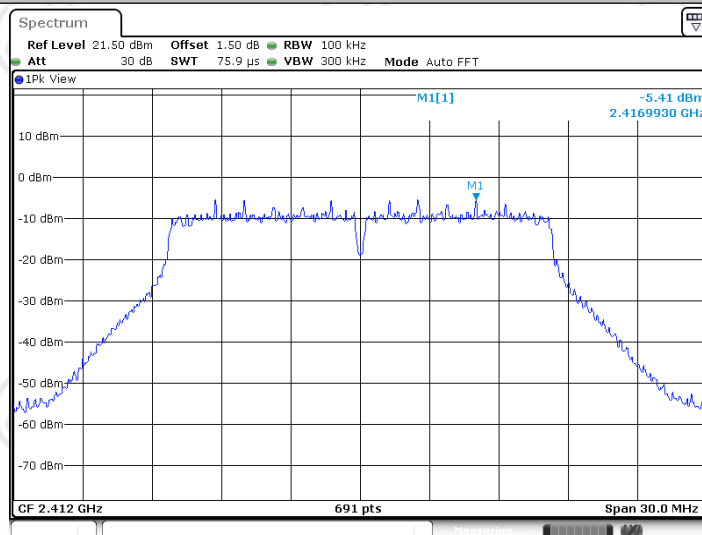


11B_Ant1_2462_30~1000



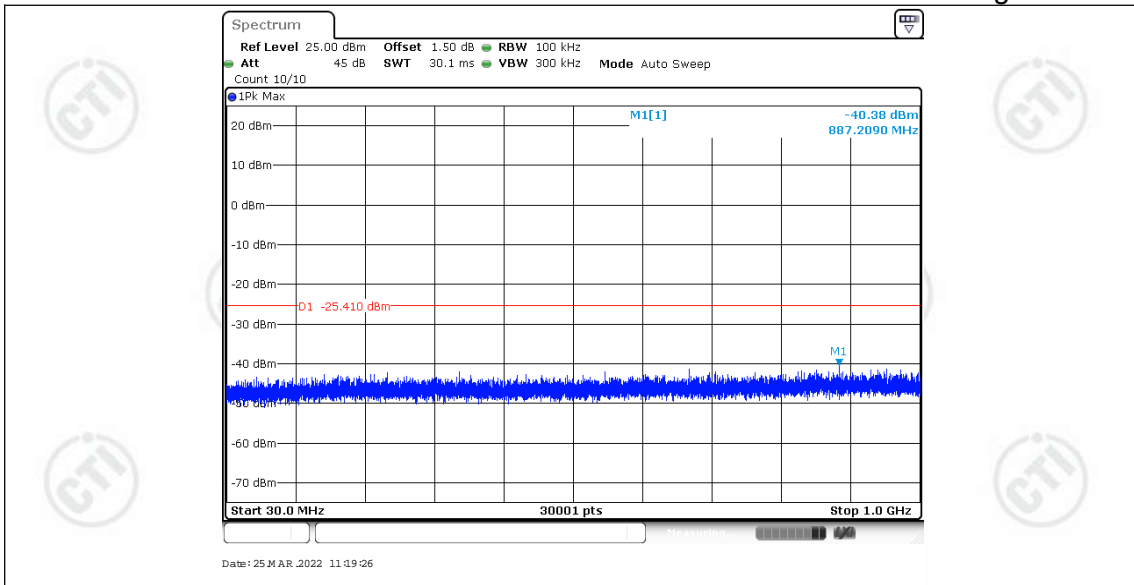
Date: 25 MAR. 2022 11:16:32

11B_Ant1_2462_1000~26500

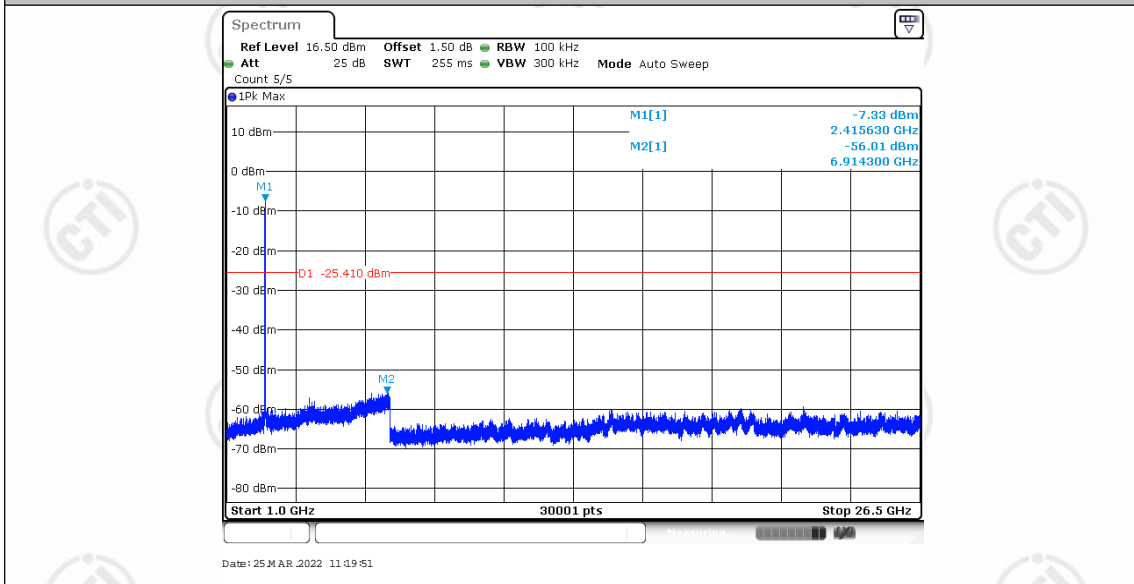


Date: 25 MAR. 2022 11:19:19

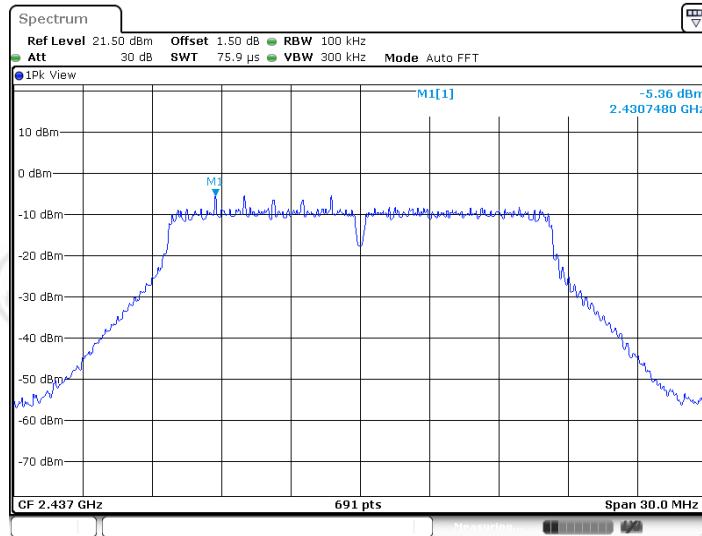
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

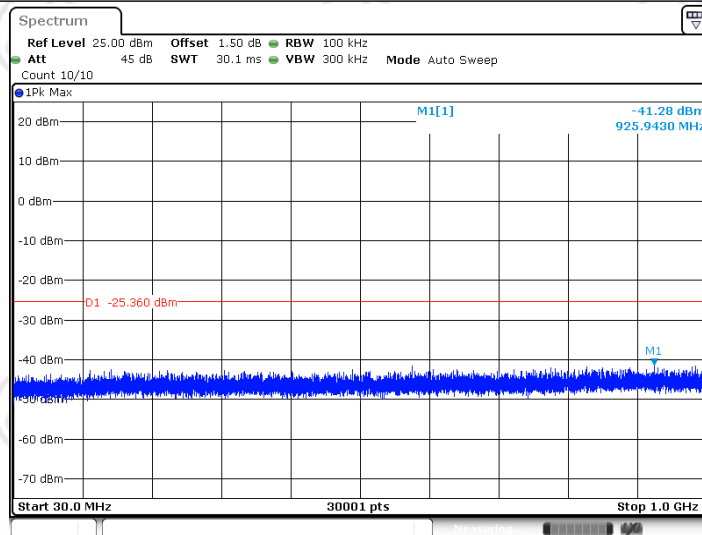


11G_Ant1_2412_1000~26500



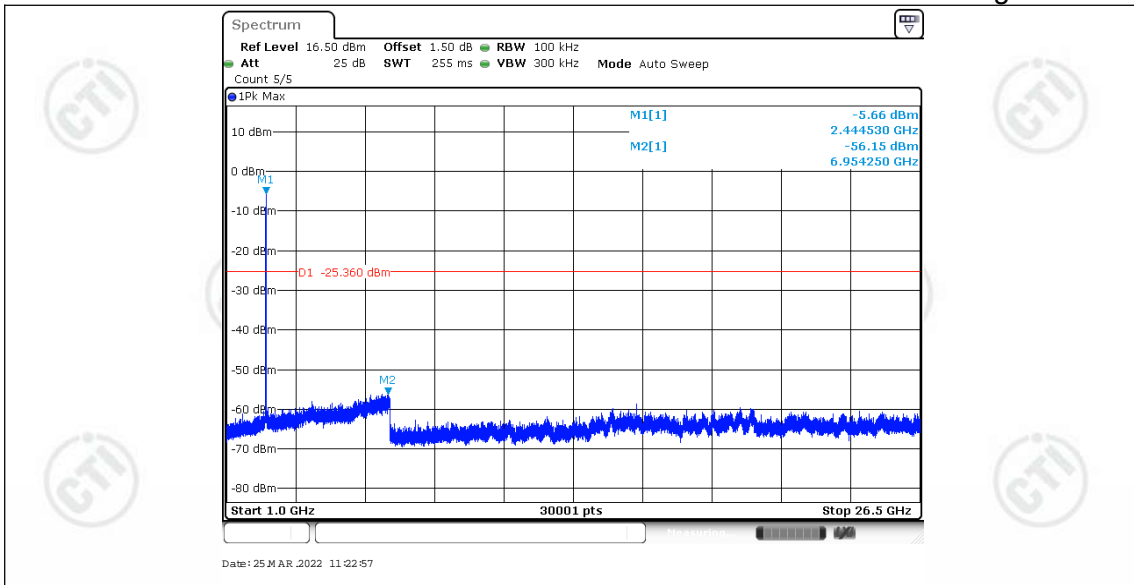
Date: 25 MAR. 2022 11:22:25

11G_Ant1_2437_0~Reference

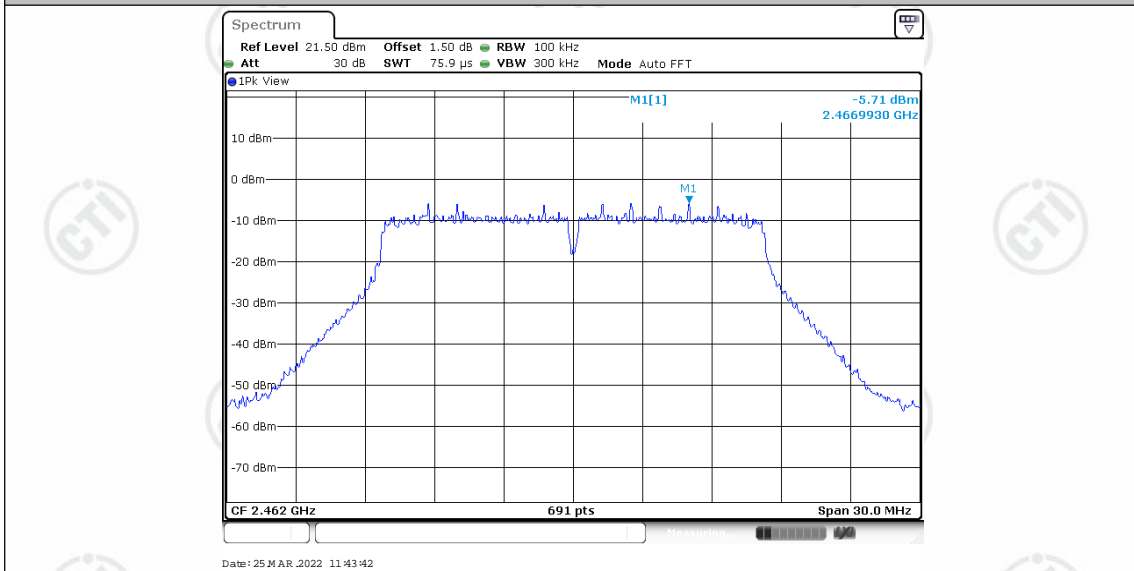


Date: 25 MAR. 2022 11:22:32

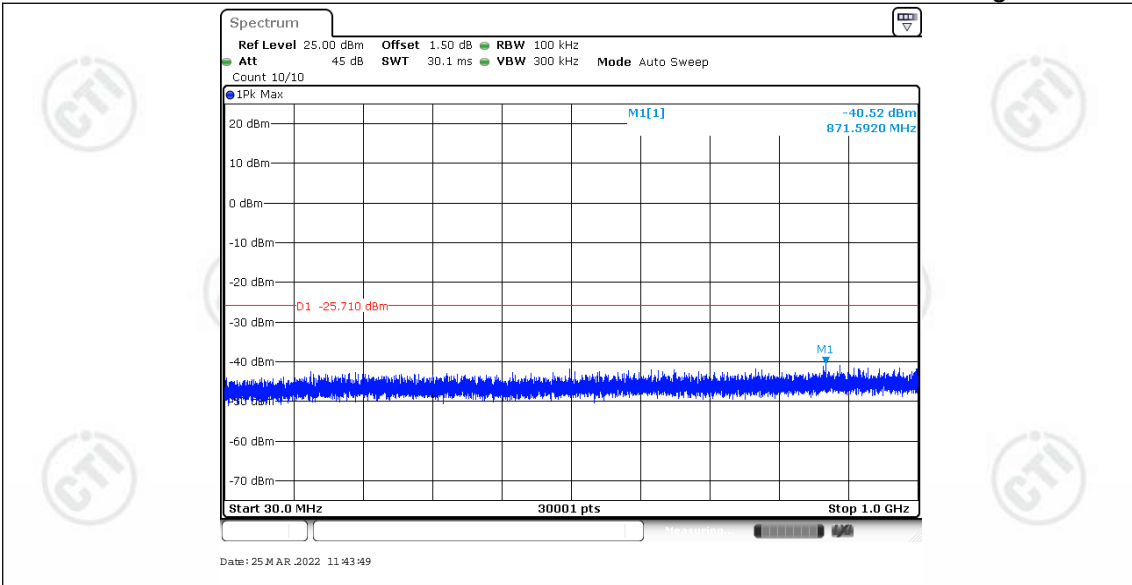
11G_Ant1_2437_30~1000



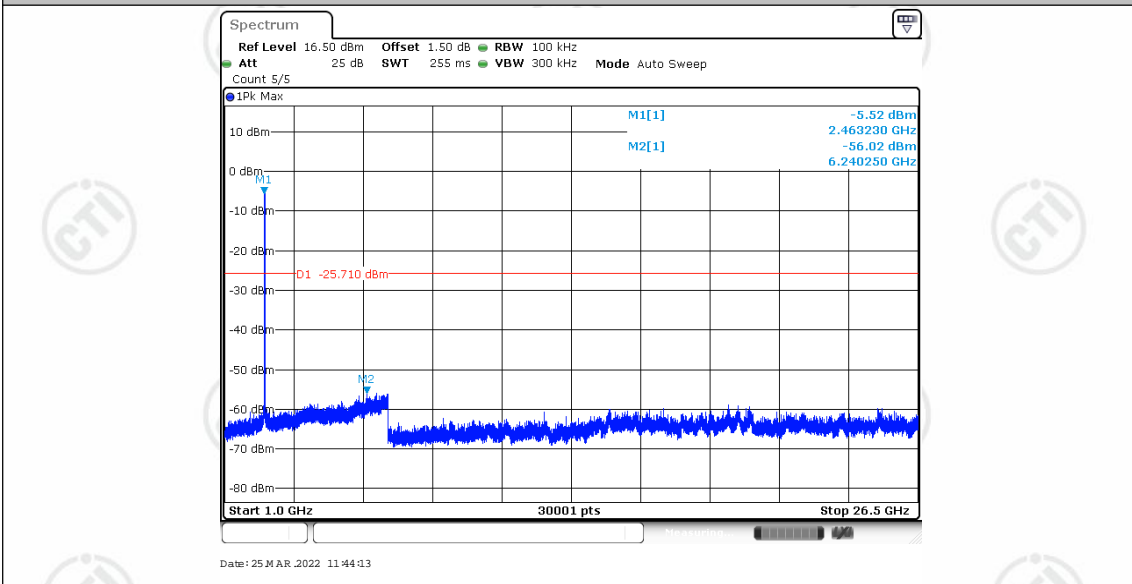
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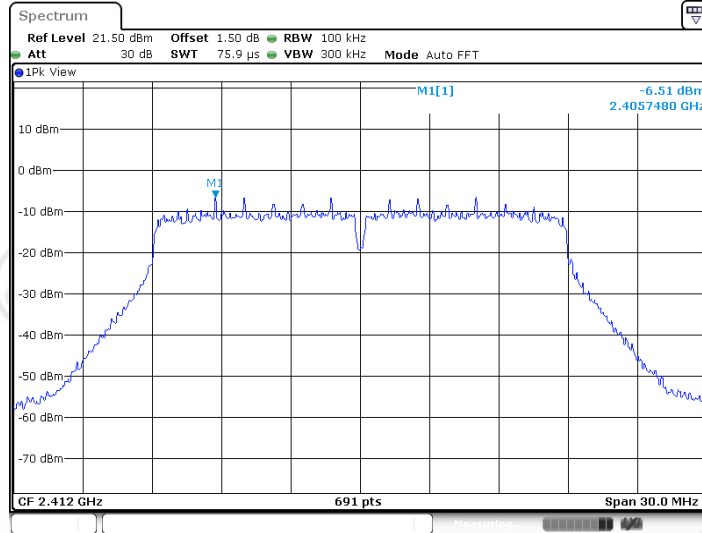
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

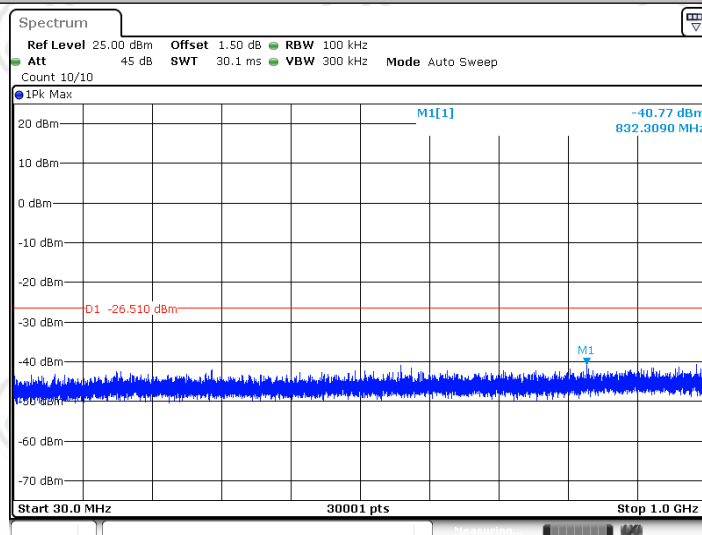


11G_Ant1_2462_1000~26500



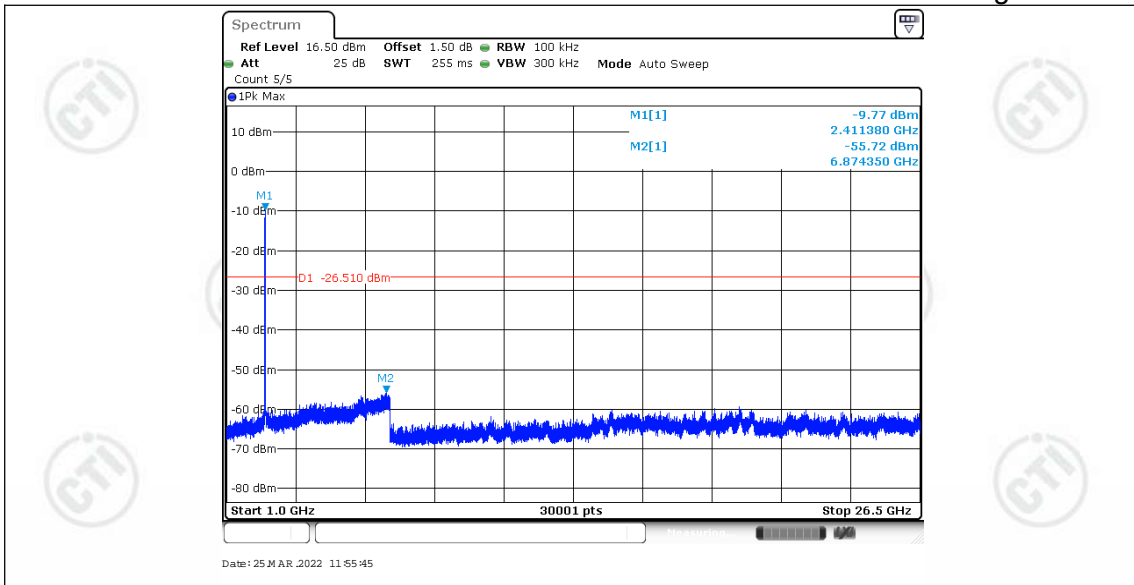
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11N20SISO_Ant1_2412_0~Reference

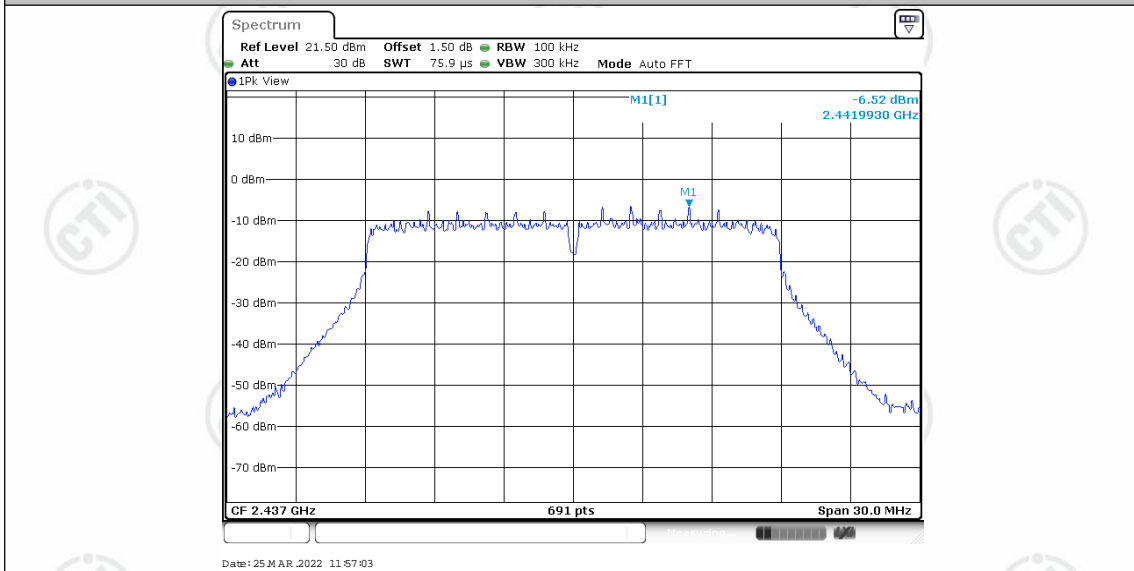


Date: 25 MAR. 2022 11:55:21

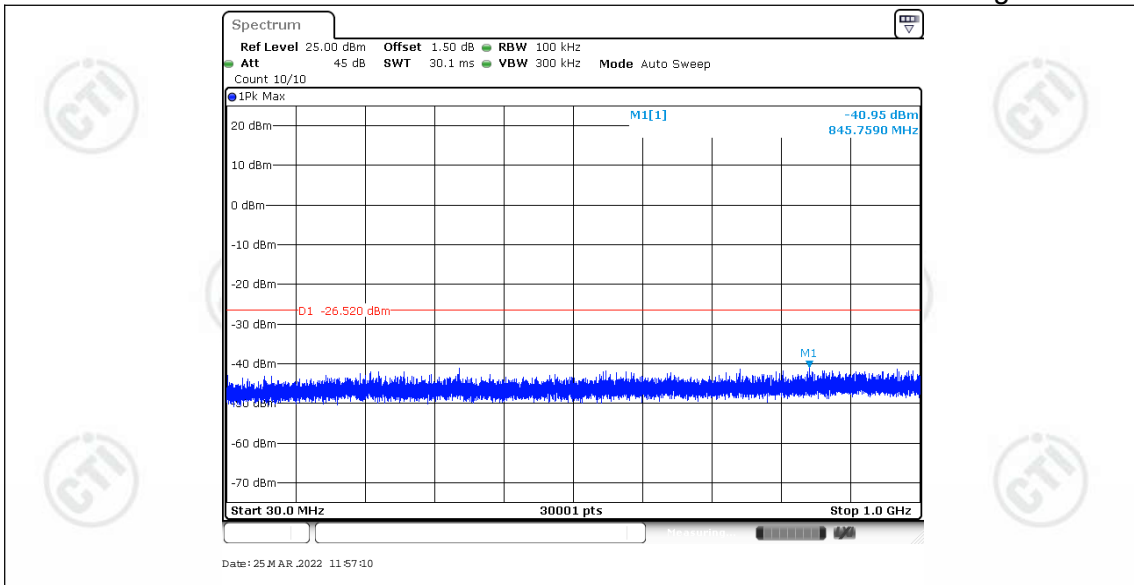
11N20SISO_Ant1_2412_30~1000



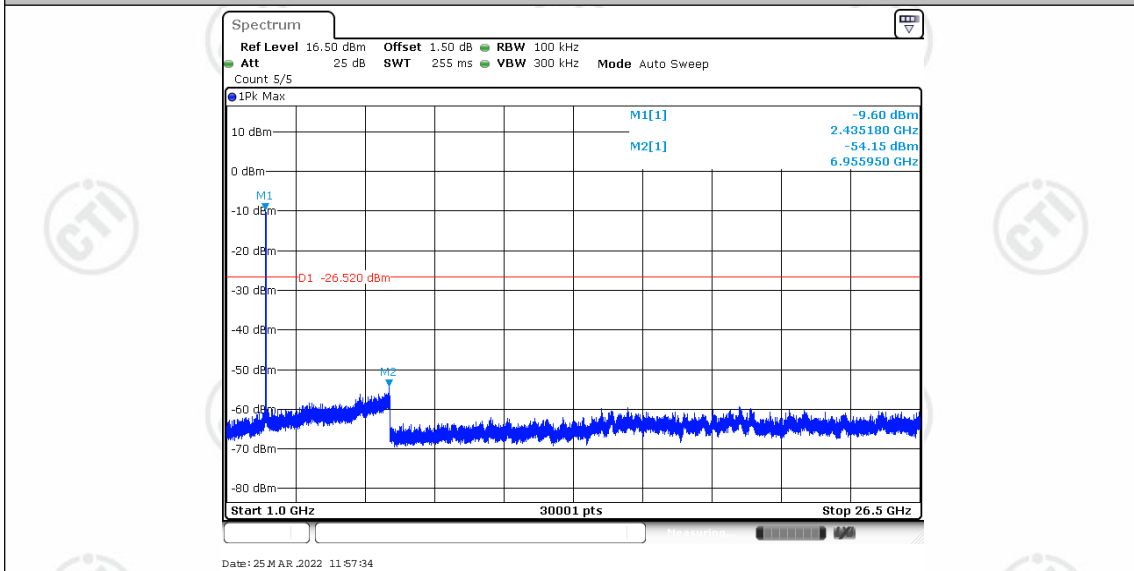
11N20SISO_Ant1_2412_1000~26500



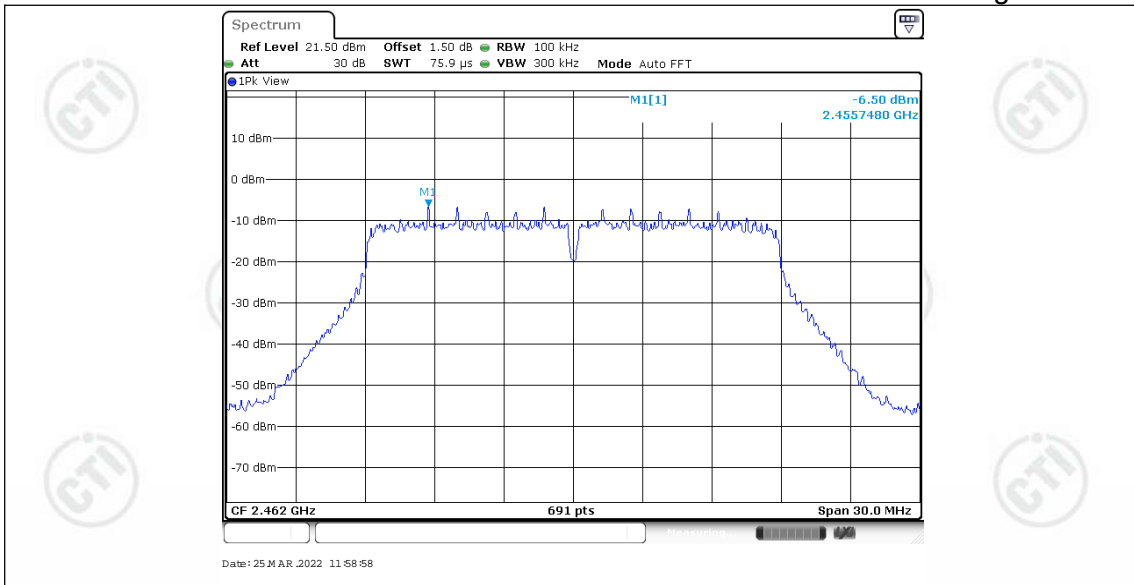
11N20SISO_Ant1_2437_0~Reference



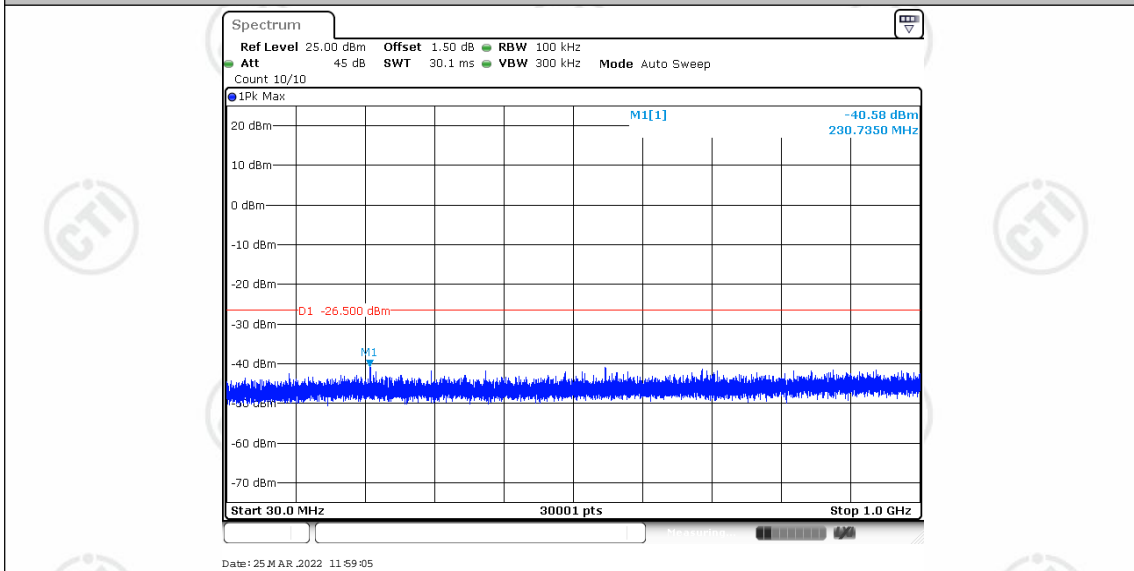
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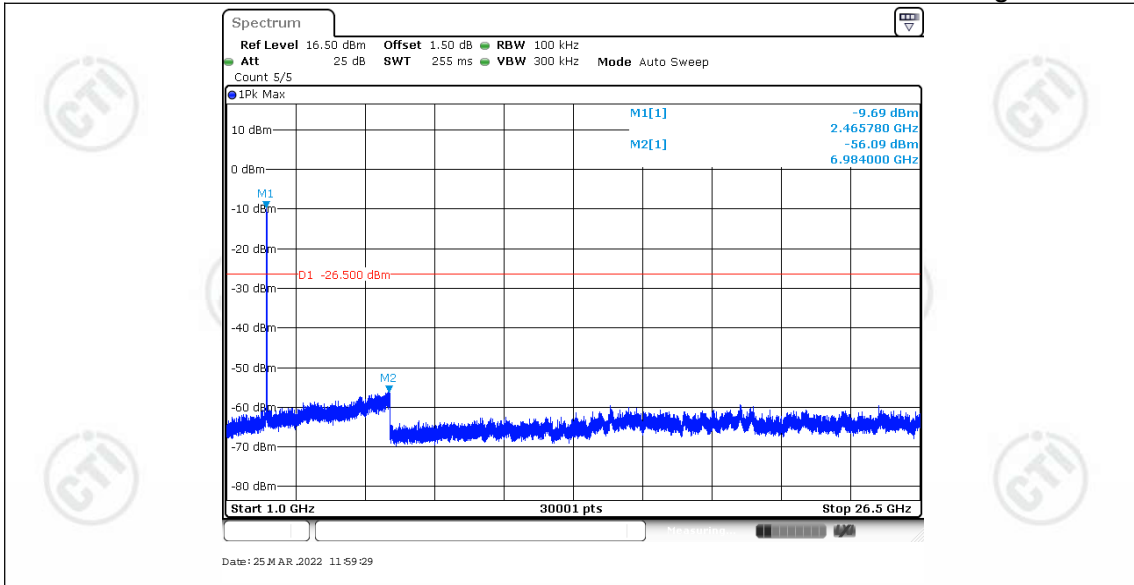
11N20SISO_Ant1_2437_1000~26500



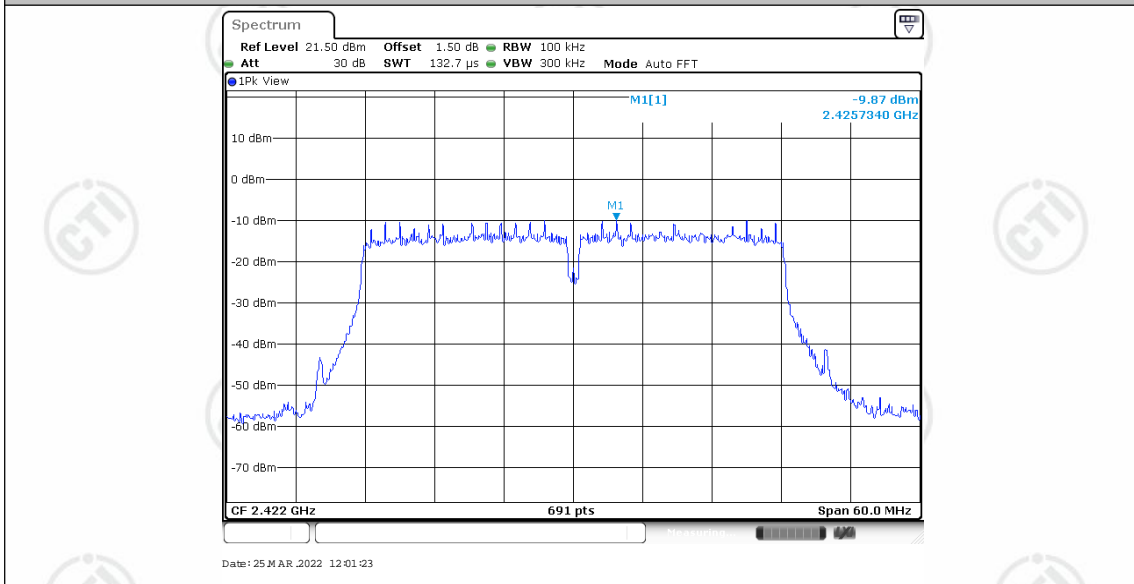
11N20SISO_Ant1_2462_0~Reference



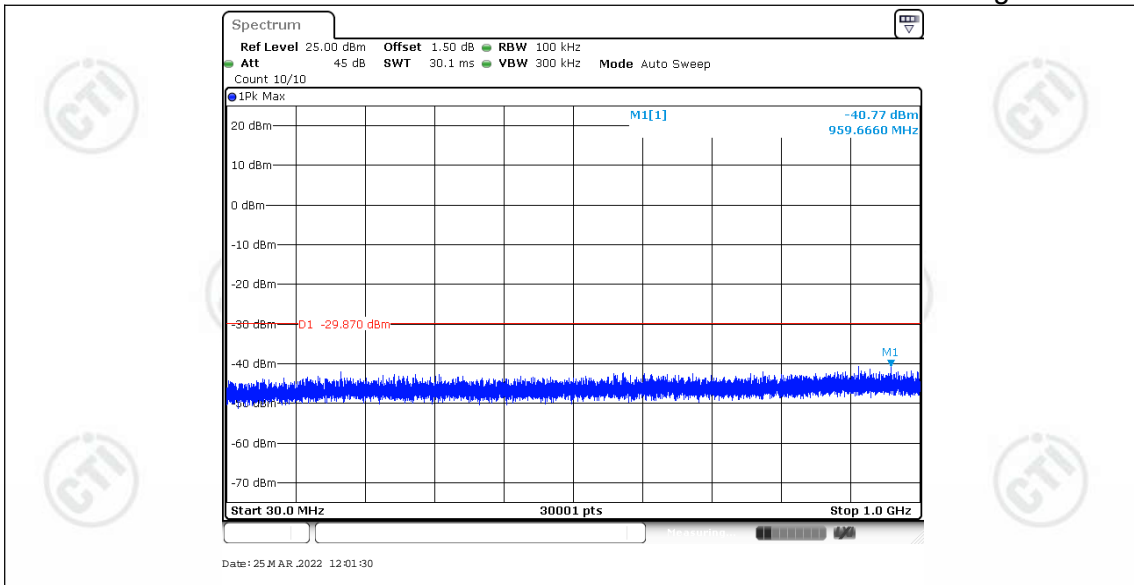
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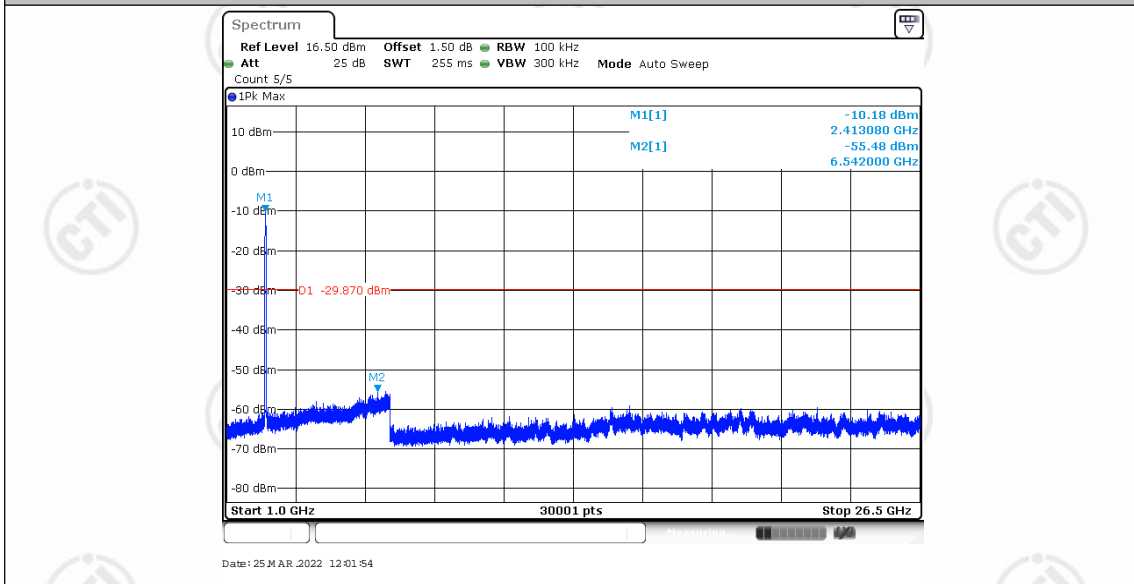
11N20SISO_Ant1_2462_1000~26500



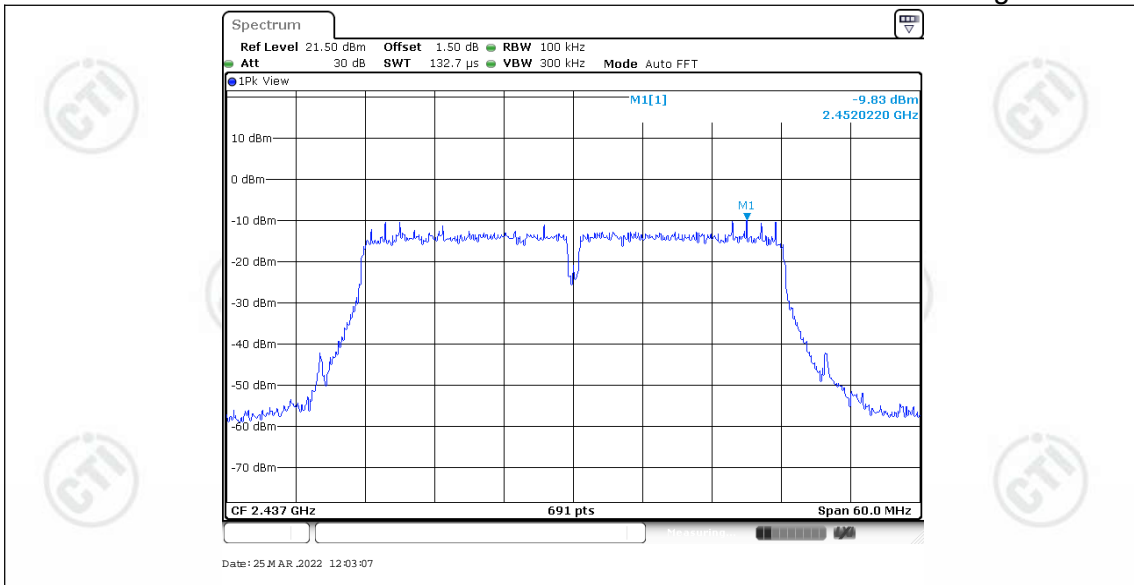
11N40SISO_Ant1_2422_0~Reference



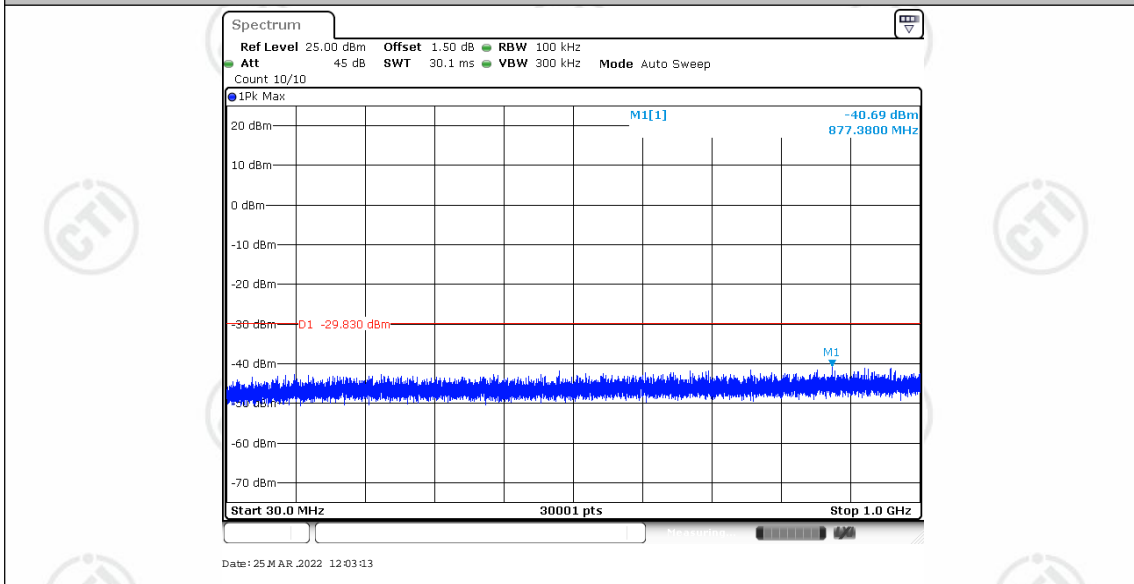
11N40SISO_Ant1_2422_30~1000



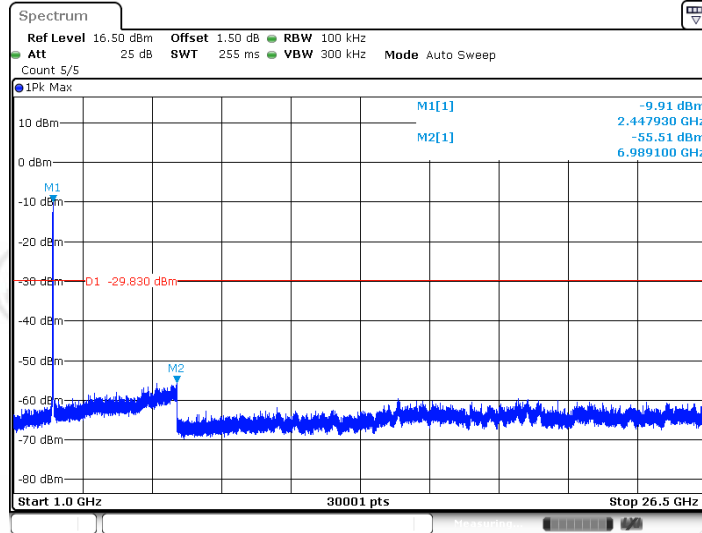
11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference

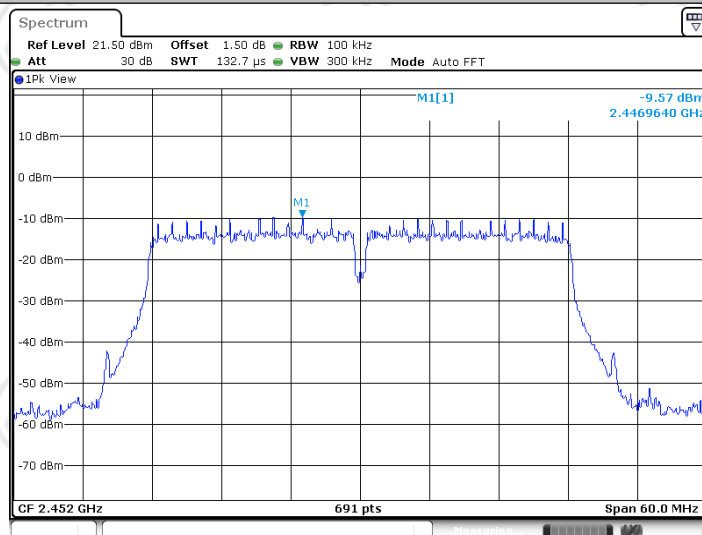


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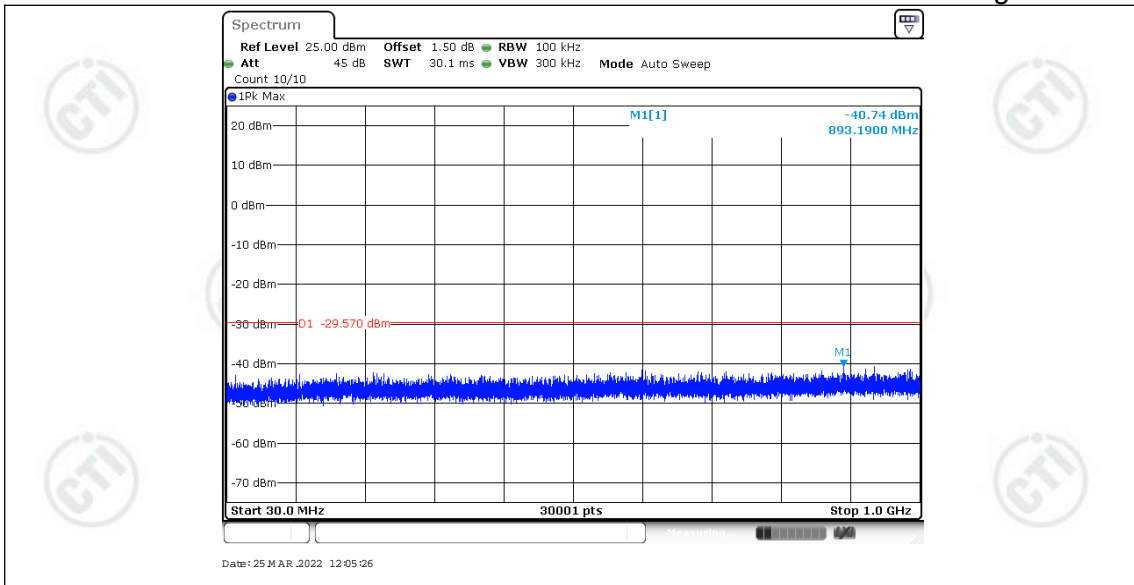
Date: 25 MAR. 2022 12:03:38

11N40SISO_Ant1_2437_1000~26500

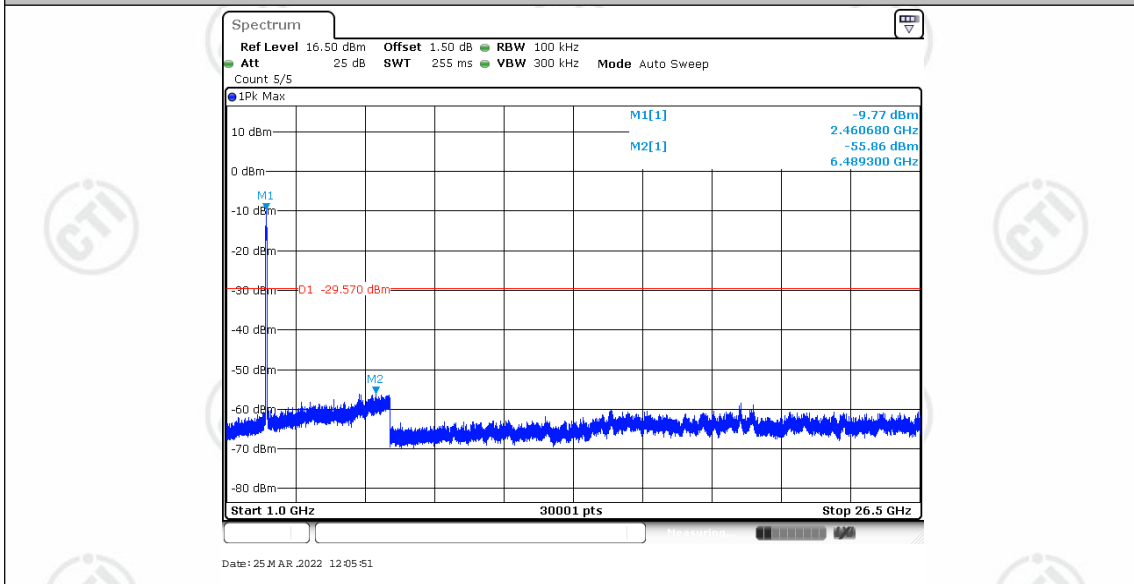


Date: 25 MAR. 2022 12:05:19

11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



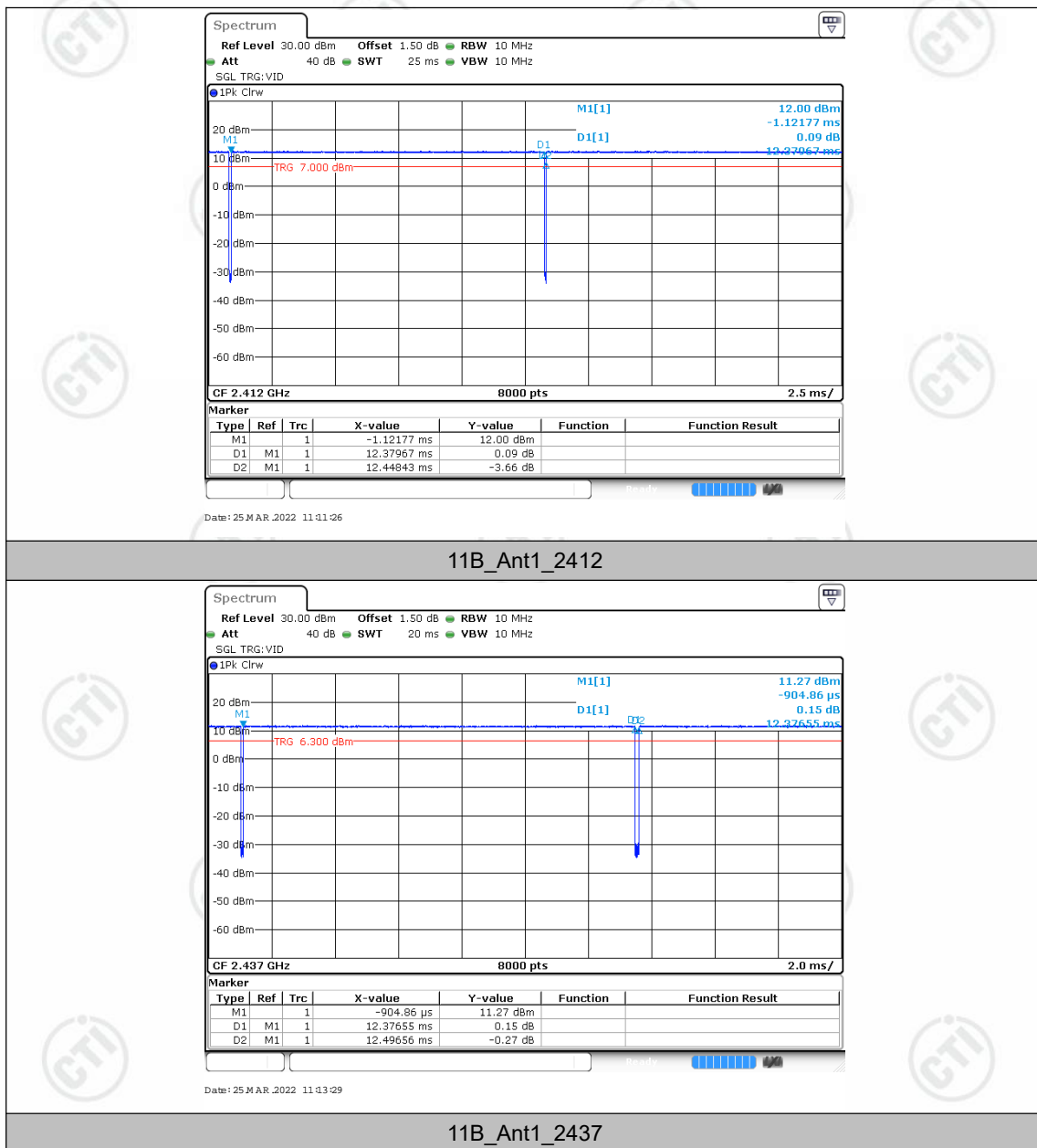
11N40SISO_Ant1_2452_1000~26500

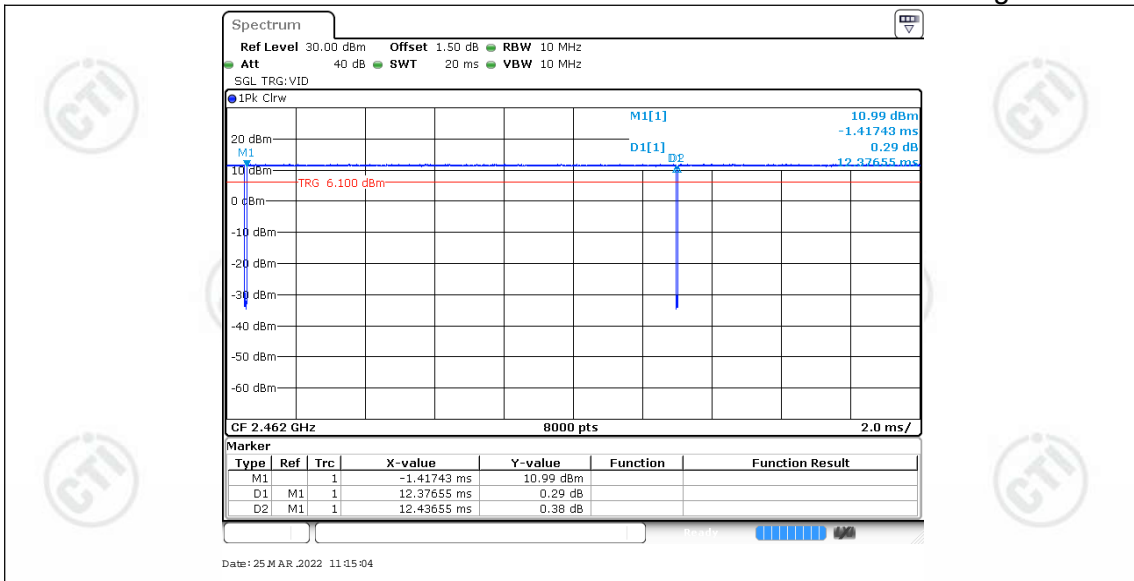
Appendix G: Duty Cycle

Test Result

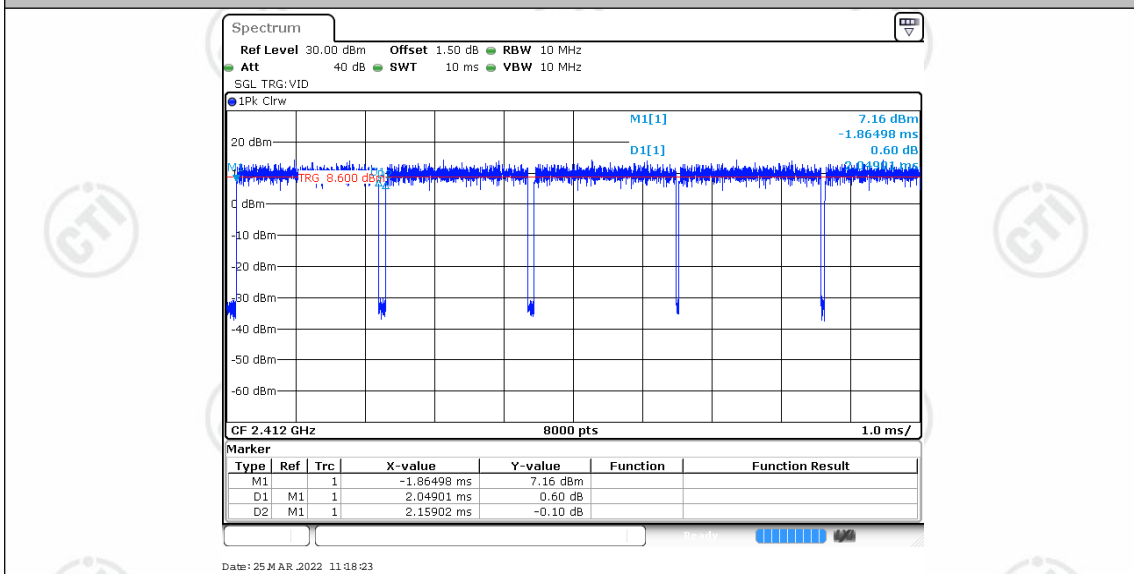
| TestMode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|-----------|---------|---------|----------------------------|--------------------------|----------------|-------|---------|
| 11B | Ant1 | 2412 | 12.38 | 12.45 | 99.44 | --- | PASS |
| | | 2437 | 12.38 | 12.50 | 99.04 | --- | PASS |
| | | 2462 | 12.38 | 12.44 | 99.52 | --- | PASS |
| 11G | Ant1 | 2412 | 2.05 | 2.16 | 94.91 | --- | PASS |
| | | 2437 | 2.05 | 2.17 | 94.47 | --- | PASS |
| | | 2462 | 2.05 | 2.12 | 96.70 | --- | PASS |
| 11N20SISO | Ant1 | 2412 | 1.91 | 2.06 | 92.72 | --- | PASS |
| | | 2437 | 1.91 | 1.97 | 96.95 | --- | PASS |
| | | 2462 | 1.91 | 1.96 | 97.45 | --- | PASS |
| 11N40SISO | Ant1 | 2422 | 0.94 | 1.08 | 87.04 | --- | PASS |
| | | 2437 | 0.94 | 0.99 | 94.95 | --- | PASS |
| | | 2452 | 0.94 | 1.01 | 93.07 | --- | PASS |

Test Graphs

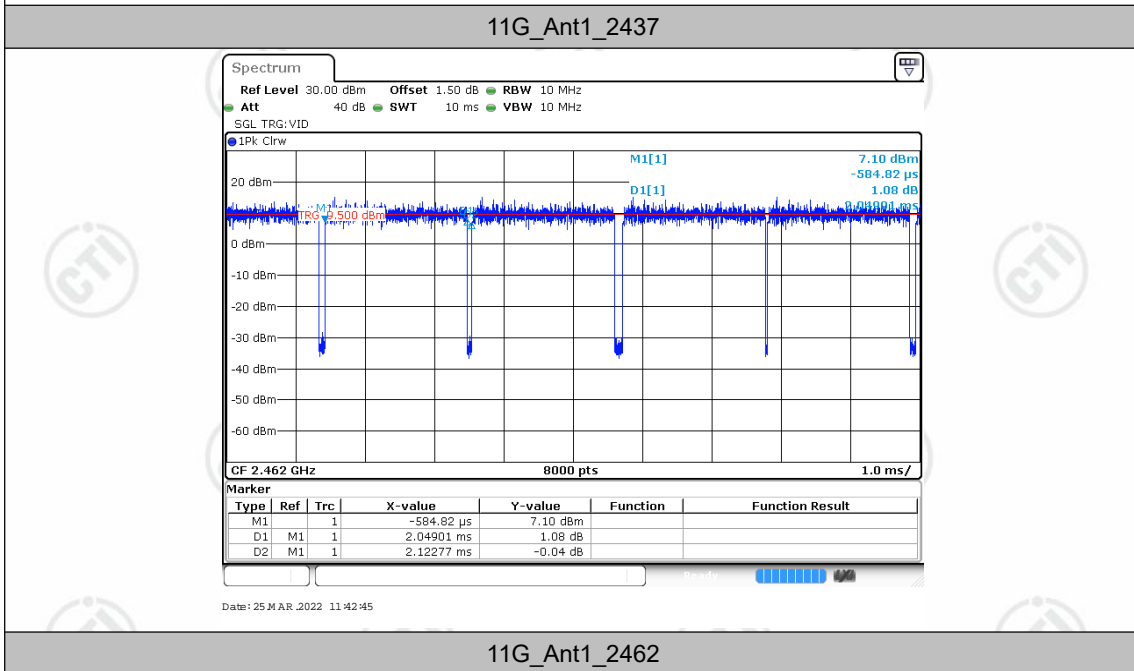
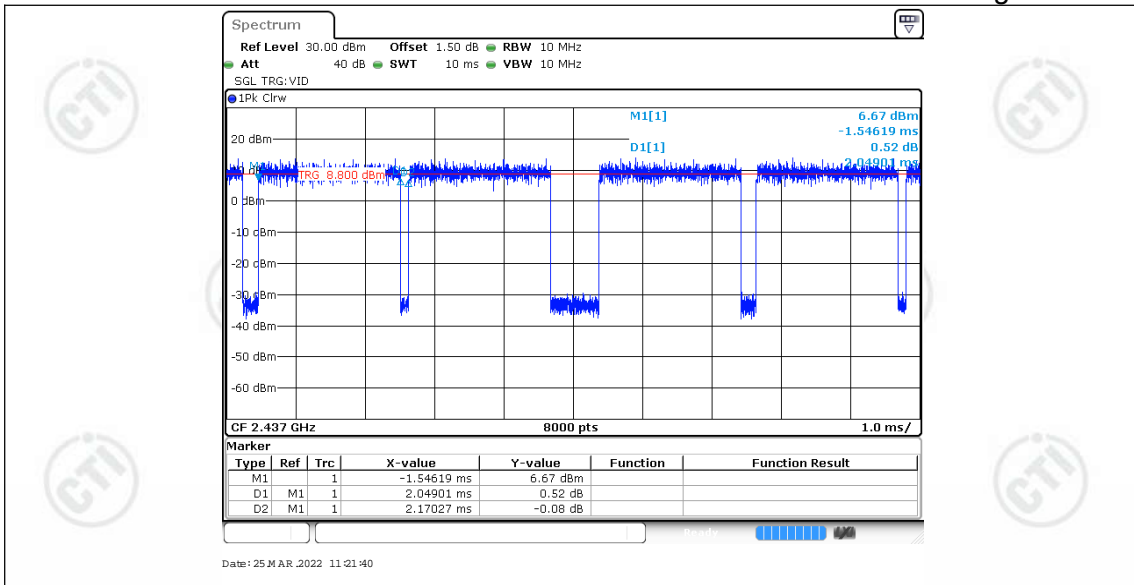


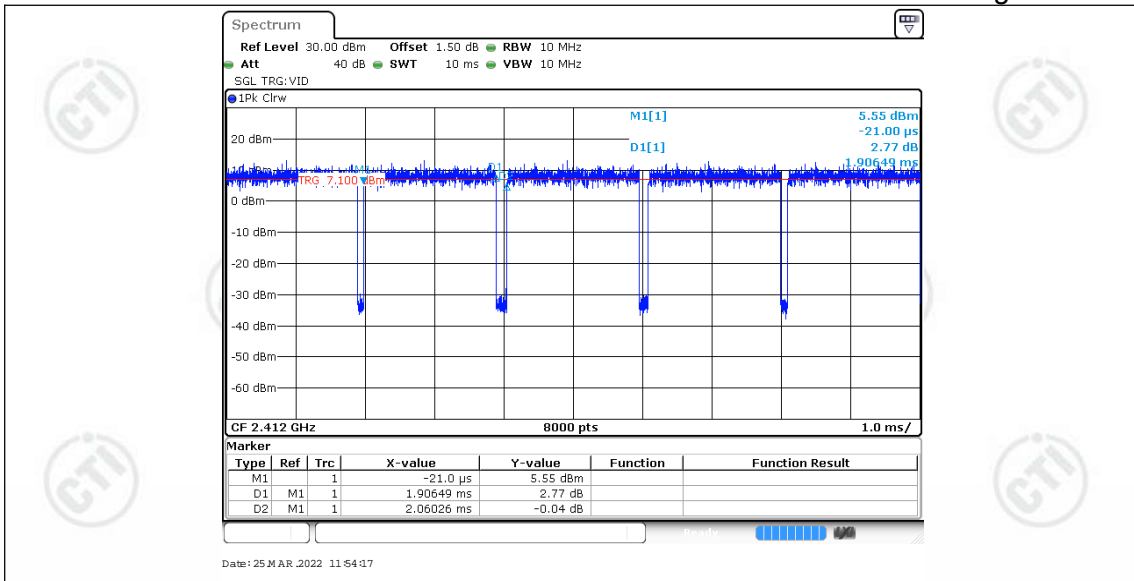


11B_Ant1_2462

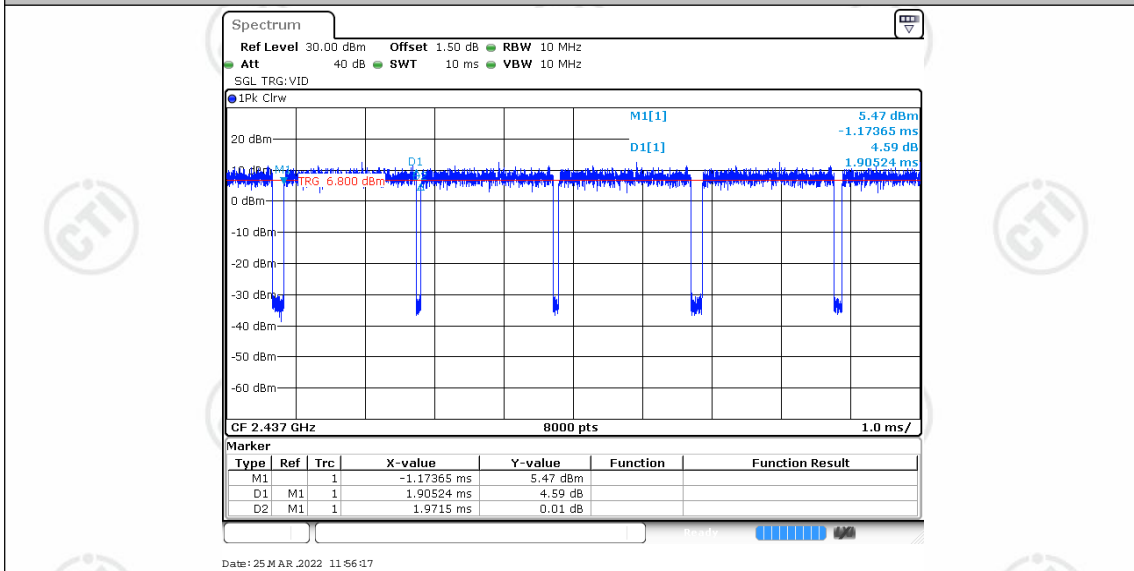


11G_Ant1_2412

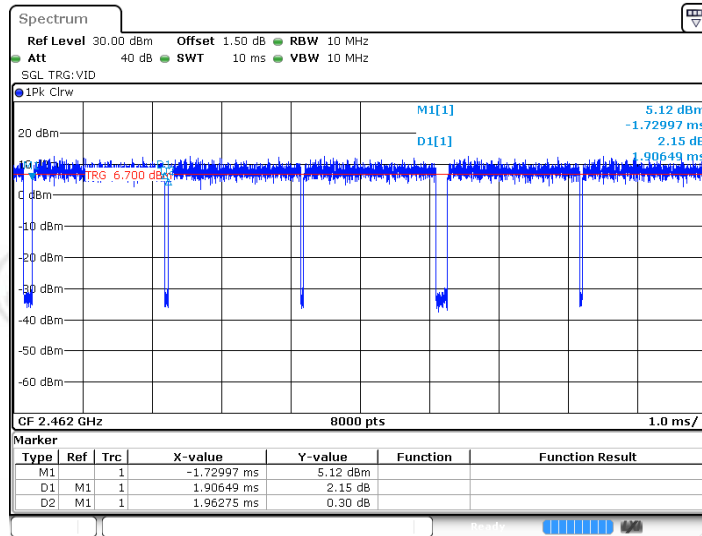




11N20SISO_Ant1_2412

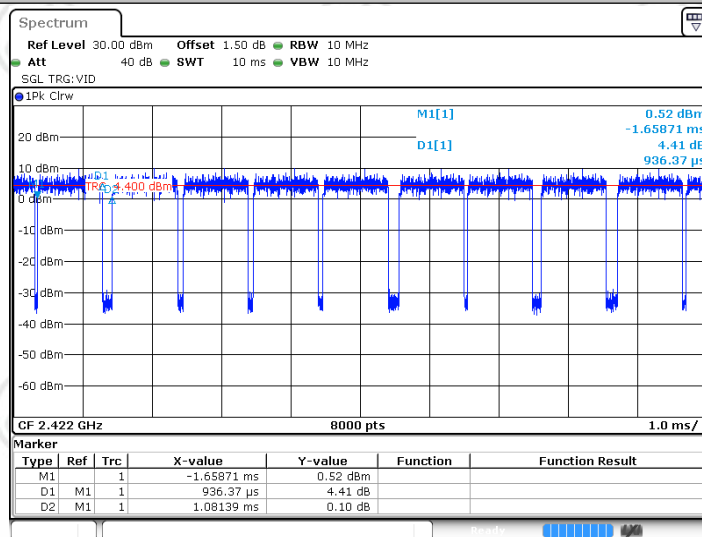


11N20SISO_Ant1_2437



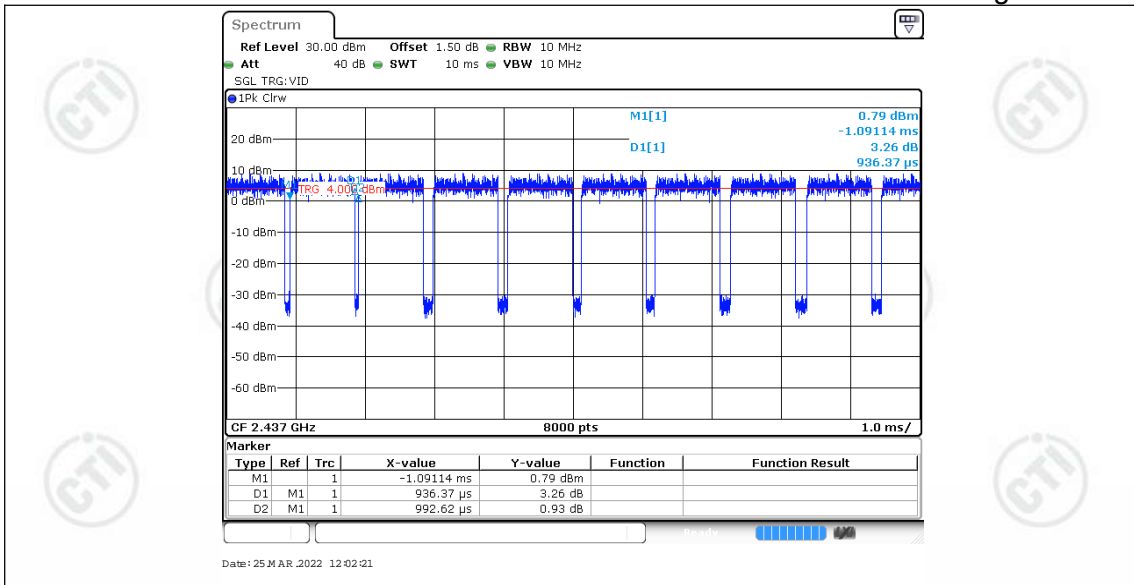
Date: 25 MAR. 2022 11:58:02

11N20SISO_Ant1_2462

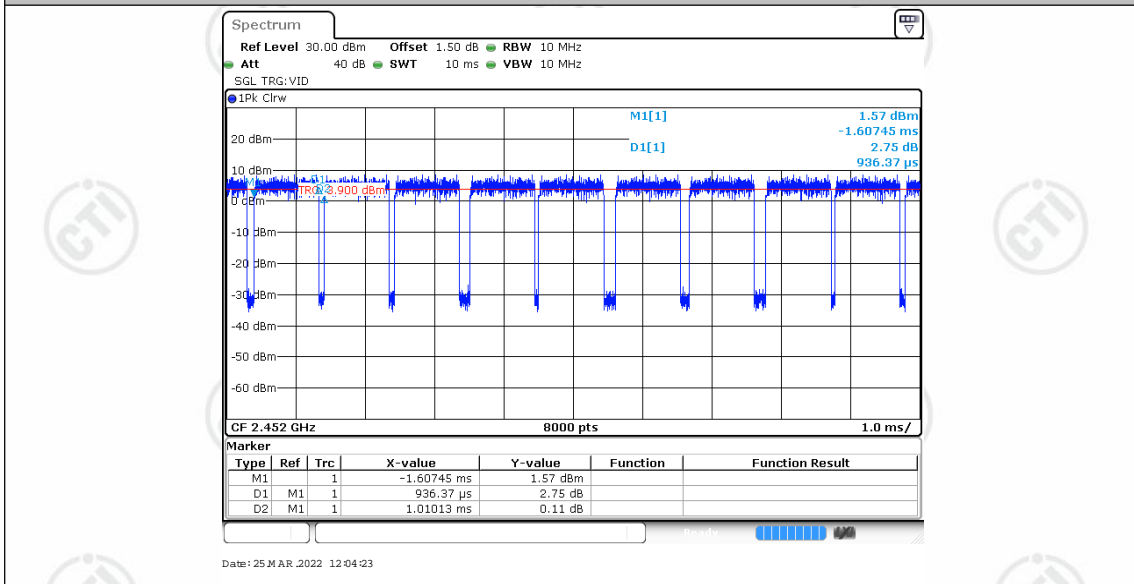


Date: 25 MAR. 2022 12:00:27

11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

*** End of Report ***